

File 344:CHINESE PATENTS ABS APR 1985-2001/Dec  
(c) 2002 EUROPEAN PATENT OFFICE  
File 347:JAPIO Oct/1976-2001/Oct(Updated 020204)  
(c) 2002 JPO & JAPIO  
File 350:Derwent WPIX 1963-2001/UD,UM &UP=200212  
(c) 2002 Derwent Info Ltd  
File 371:French Patents 1961-2002/BOPI 200207  
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Set	Items	Description
S1	8363	UMBRELLA?
S2	317	THATCH?
S3	15041	PALM OR PALMS OR BAMBOO?
S4	25536	PLASTIC(5N)SHEET?
S5	0	PALAPAS?
S6	3002	BEACH?
S7	41707	FRAME? AND SHEET?
S8	47327	COATING()LAYER? OR COVER()SHEET?
S9	222734	CLOSEABLE OR FOLD?
S10	0	S1 AND S2
S11	27	S1 AND S3
S12	4	S11 AND (S4 OR S6 OR S7 OR S8 OR S9)
S13	25	S1 AND S4
S14	10	S13 AND (S6 OR S7 OR S8 OR S9)
S15	10	S14 NOT S12
S16	22	S1 AND S8
S17	6	S16 AND (S3 OR S4 OR S6 OR S7 OR S9)
S18	4	S17 NOT (S12 OR S14)
S19	4	AU="APPLE P C"
S20	3	S19 AND S1
S21	3	S20 NOT (S12 OR S14 OR S17)

12/5/1 (Item 1 from file: 347)  
DIALOG(R) File 347:JAPIO  
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05353121 \*\*Image available\*\*  
REVOLUTIONARY AIR **UMBRELLA**

PUB. NO.: 08-308621 [JP 8308621 A]  
PUBLISHED: November 26, 1996 (19961126)  
INVENTOR(s): TAMURA KIICHI  
APPLICANT(s): TAMURA SENNOSUKE [000000] (An Individual), JP (Japan)  
APPL. NO.: 07-155101 [JP 95155101]  
FILED: May 18, 1995 (19950518)  
INTL CLASS: [6] A45B-019/02  
JAPIO CLASS: 30.3 (MISCELLANEOUS GOODS -- Clothing & Personal Belongings)

#### ABSTRACT

PURPOSE: To provide an air **umbrella** having a double airtight construction of upper and lower sheets from which the **umbrella** is quickly shaped by an inflating operation by sending air from a stopper and which is instantaneously shrunk and **folded** by discharging the air by opening the stopper, so that the **umbrella** is a very light, small, and portable without becoming a nuisance and trouble when the rain stops.

CONSTITUTION: The main body portion D of an **umbrella** is made of a material such as a vinyl sheet or a similar material which is air-tight, soft, and tough, and has a double structure of upper and lower sheets A and B. By injecting air from a stopper 5 to a portion between the sheets A and B, the air **umbrella** is instantaneously quickly formed. By opening an air discharging plug F and using the **palms** of hands, the air is instantaneously quickly discharged and the **umbrella** results in a super light shrunk shape.

12/5/2 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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012422129 \*\*Image available\*\*  
WPI Acc No: 1999-228237/199919  
XRPX Acc No: N99-168846

**Winder for umbrella for larger size umbrellas for beach and garden use**

Patent Assignee: MA M J (MAMJ-I)  
Inventor: MA M J  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5884859	A	19990323	US 9737440	A	19970207	199919 B
			US 97937342	A	19970920	

Priority Applications (No Type Date): US 9737440 P 19970207; US 97937342 A 19970920

#### Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5884859	A		7	A45B-017/00	Provisional application US 9737440

Abstract (Basic): US 5884859 A

NOVELTY - The control system is formed by a pair of spring plates and gear teeth on crank shaft.

DETAILED DESCRIPTION - The winder (10) has a two-part hollow housing (13) and a gear teeth (18) on a crank shaft (16). The shaft rotates a winding reel (19) attached to a metal rod (11), one of the

housing and the crank shaft. A cable is wound/unwound on the reel. By rotating the shaft, the cable is wound/unwound to make a runner collapse/extend. An opening (22) on one of the housing accommodates the gear teeth. A pair of spring plates (21) are fitted below the gear teeth. One end of the spring plate is anchored on the housing while the other end is seated in the valley of the gear teeth.

USE - For large sized **umbrella** used in garden, **beach** .

ADVANTAGE - Prevents injury during positioning of runner. During winding, a click sound is generated and winding feeling is felt on the **palm** .

DESCRIPTION OF DRAWING(S) - The figure shows the components of coil winder.

Winder (10)  
Metal rod (11)  
Housing (13)  
Crank shaft (16)  
Gear teeth (18)  
Winding reel (19)  
Spring plates (21)  
Opening (22)  
pp; 7 DwgNo 2/4

Title Terms: WIND; **UMBRELLA** ; LARGER; SIZE; **UMBRELLA** ; **BEACH** ; GARDEN  
Derwent Class: P24; Q36  
International Patent Class (Main): A45B-017/00  
International Patent Class (Additional): B65H-075/34  
File Segment: EngPI

12/5/3 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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010685006 \*\*Image available\*\*  
WPI Acc No: 1996-181962/199619  
XRPX Acc No: N96-152870

**Palm -tree shaped beach umbrella - comprises several plastics palm leaves which are inserted into holes in support pole, creating rational-looking sunshade** NoAbstract

Patent Assignee: FUJIKI K (FUJI-I)  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7313230	A	19951205	JP 94146943	A	19940525	199619 B

Priority Applications (No Type Date): JP 94146943 A 19940525  
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 7313230	A		2	A45B-017/00	

Title Terms: SHAPE; **BEACH** ; **UMBRELLA** ; COMPRISE; PLASTICS; **PALM** ; LEAF;  
INSERT; HOLE; SUPPORT; POLE; SUNSHADE; NOABSTRACT

Derwent Class: P24  
International Patent Class (Main): A45B-017/00  
File Segment: EngPI

12/5/4 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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008036493 \*\*Image available\*\*  
WPI Acc No: 1989-301605/198942  
XRPX Acc No: N89-229959

**Umbrella of sunshade worn on head - fastens under chin, is inflatable**

by mouth and folds up when not in use

Patent Assignee: ROSSMANN E (ROSS-I)

Inventor: ROSSMANN E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3811233	A	19891012	DE 3811233	A	19880402	198942 B

Priority Applications (No Type Date): DE 3811233 A 19880402

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3811233	A		3		

Abstract (Basic): DE 3811233 A

The **umbrella** or sunshade has a frame (1) which is inflated by blowing with the mouth, and is worn on the head. It is made of plastics rubber or coated fabric, and is easy to **fold** when not containing air. A strap fastens it under the wearer's chin by means of a clasp of hooked-pile fastener.

A radius of 30 to 40 centimetres is sufficient. There is no hard framework made of metal, plastics or **bamboo** and no handle.

USE/ADVANTAGE - The **umbrella** or sunshade fits over the head, leaving the wearer's hands free.

1/1

Title Terms: **UMBRELLA** ; SUNSHADE; WEAR; HEAD; FASTEN; CHIN; INFLATE; MOUTH ; **FOLD** ; UP

Derwent Class: P24

International Patent Class (Additional): A45B-011/04; A45B-019/02

File Segment: EngPI

15/5/1 (Item 1 from file: 347)  
DIALOG(R) File 347:JAPIO  
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05502514 \*\*Image available\*\*  
PACKING METHOD OF WET **UMBRELLA**

PUB. NO.: 09-117314 [JP 9117314 A]  
PUBLISHED: May 06, 1997 (19970506)  
INVENTOR(s): DEZUKI KIYOTO  
APPLICANT(s): DEZUKI HIROKAZU [000000] (An Individual), JP (Japan)  
APPL. NO.: 08-211837 [JP 96211837]  
FILED: July 08, 1996 (19960708)  
INTL CLASS: [6] A45B-025/24; A45B-009/04  
JAPIO CLASS: 30.3 (MISCELLANEOUS GOODS -- Clothing & Personal Belongings);  
14.2 (ORGANIC CHEMISTRY -- High Polymer Molecular Compounds)

#### ABSTRACT

PROBLEM TO BE SOLVED: To protect clothing and goods from rainwater in a crowd of people by an easily handling method wherein, when an **umbrella** is **folded** up after one side of water repellent processing-applied cloth or a **plastic sheet** is fastened in a linear shape over a skirt part from the almost tip of a rainproof part of the **umbrella**, the **umbrella** is rolled up and fastened by using fasteners.

SOLUTION: One side of water repellent processing-applied cloth and a **plastic sheet** 5 are fastened over a skirt part 4 from a tip part 3 of cloth and a **plastic sheet** 2 fastened to a support bone of a rainproof part of a **folded**-up **umbrella** 1, and when the **umbrella** 1 is closed, its wet great part is rolled up, and is prevented from being exposed outside. That is, in the water repellent processing- applied cloth and the **plastic sheet** 5, fasteners 7 are respectively installed on the obverse and reverse sides as female and male parts, and when the **folded**-up **umbrella** 1 is rolled up from above, these are fastened so as not to be loosened. Therefore, clothing and goods can be protected from rainwater in a crowd of people by an easily handling method.

15/5/2 (Item 2 from file: 347)  
DIALOG(R) File 347:JAPIO  
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04718815 \*\*Image available\*\*  
**FOLDING UMBRELLA MADE OF PLASTIC SHEET**

PUB. NO.: 06-189815 [JP 6189815 A]  
PUBLISHED: July 12, 1994 (19940712)  
INVENTOR(s): OKUDE TADASHI  
APPLICANT(s): SANSHO KK [000000] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 04-357651 [JP 92357651]  
FILED: December 24, 1992 (19921224)  
INTL CLASS: [5] A45B-019/02  
JAPIO CLASS: 30.3 (MISCELLANEOUS GOODS -- Clothing & Personal Belongings);  
14.2 (ORGANIC CHEMISTRY -- High Polymer Molecular Compounds)

#### ABSTRACT

PURPOSE: To provide a **folding umbrella** made of a **plastic sheet**, which is **folded** small and carried at the time of non-use, and is formed in an **umbrella** shape by injecting and filling air at the time of use.

CONSTITUTION: By a thin and durable **plastic sheet** such as vinyl, an **umbrella** part 1 having the same shape as a conventional **umbrella** of a circle, a polygon, etc., is provided, and a tubular hollow rib part 2

corresponding to the rib of a conventional **umbrella** is formed radially extending from the peripheral part of the **umbrella** part 1 to the center. Also, a tubular hollow handle part 3 corresponding to the handle of a conventional **umbrella** is protruded and formed extending from the center to the lower part, the hollow rib part 2 and the hollow handle part 3 are formed in a ventilation state each other, and in a part of the hollow rib part 2 or the hollow handle part 3, an injection port 4 for injecting air into the hollow part is formed.

15/5/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
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03303604 \*\*Image available\*\*  
**UMBRELLA**

PUB. NO.: 02-279104 [JP 2279104 A]  
PUBLISHED: November 15, 1990 (19901115)  
INVENTOR(s): AIMI MITSUO  
OTSUKA MASAYOSHI  
MATSUMOTO KOICHI  
SAKAI YASUSHI  
TANI KIYOTSUGU  
FUJIYAMA TERUKI  
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD [000582] (A Japanese Company  
or Corporation), JP (Japan)  
APPL. NO.: 01-100734 [JP 89100734]  
FILED: April 20, 1989 (19890420)  
INTL CLASS: [5] A45B-011/00  
JAPIO CLASS: 30.3 (MISCELLANEOUS GOODS -- Clothing & Personal Belongings)  
JOURNAL: Section: C, Section No. 802, Vol. 15, No. 48, Pg. 8, February  
05, 1991 (19910205)

#### ABSTRACT

PURPOSE: To obtain an inexpensive **umbrella** by providing radially **folding** lines on a waterproof plate body, forming a grip part by **folding** this **folding** , line and curving the waterproof plate body.

CONSTITUTION: A plate body 1 is formed by sheet-like waterproof paper or **sheet** -like waterproof **plastic** . When a **folding** line 2 is **folded** so as to become an edge line of the lower side, and 4a and 5a are **folded** so as to become edge lines of the upper side, and also, 4b and 5b are **folded** so as to become edge lines of the lower side, the oblong plate body 1 is curved and an **umbrella** is formed. The **folded** part forms a grip part 7 having a hole 6 on which holes 6a to 6f are superposed. By holding the grip part 7 with a hand, a state of the **umbrella** is maintained. It is also possible to maintain the state of the **umbrella** by detaining the grip part 7 with a staple, etc. Also, it is possible that the **folding** line is formed as a **fold** or formed as a sewing machine score. Moreover, the waterproof body 1 can be manufactured by working continuously a hoop-like one.

15/5/4 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013011705 \*\*Image available\*\*  
WPI Acc No: 2000-183556/200017  
XRAM Acc No: C00-057704

**Collector and back-flushing apparatus for a water process tank  
incorporates a valve and venturi flush system so that particulate**

material from the base of the tank is flushed with water and delivered  
back to the top of the tank

Patent Assignee: FIELD G R (FIEL-I); BIG IRON DRILLING LTD (BIGI-N)

Inventor: FIELD G R

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2272762	A1	19991120	CA 2272762	A	19990520	200017 B
US 6059967	A	20000509	US 9881638	A	19980520	200030

Priority Applications (No Type Date): US 9881638 A 19980520

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2272762	A1	E	26	B01J-049/00	
US 6059967	A			B01D-035/00	

Abstract (Basic): CA 2272762 A1

NOVELTY - The back-flush apparatus comprises two vertical, concentric tubes (6,7) within the casing with a cap type valve operated by a pressure piston (22) at the top, a second valve (45) at the bottom of the tube to shut off the collector arms (46). In flush operation the inner tube is pressurized; the top valve opened and the bottom valve shut. Water is delivered to the space between the two concentric tubes and draws particulate matter into the space by venturi action and then ejects it top the top valve and back into the tank.

DETAILED DESCRIPTION - The top valve comprises a cap (11) that sits on top of the outer tube (6) and can slide up and down on the inner tube (7). A spring (16) keeps the cap in the normally closed position. Water may be delivered to the piston via hole (33) to move the piston and the cap upwards to an open position. While in the closed position a valve (45) at the bottom of the concentric tubes is open and allows water to flow into the inner tube (7). However if the flow in the inner tube is reversed and the tube pressurized the top valve opens, the bottom valve shuts and a venturi opening at the bottom of the tube delivers pressurized water from the inner tube to the gap between the inner and outer tubes, in the process, drawing particulate material up through the gap between the two tubes and out via the top valve. A deflector (35) distributes the washed particulate material back around the edges of the tank.

USE - The apparatus is used to collect treated water from a process tank containing particulate processing material and for periodic back-flushing of the particulate process material within the tank. Processes may include water softening to remove calcium and magnesium salts or for removing iron and sulfur from water.

ADVANTAGE - In the back-flush mode the flushed particulate material delivered from the top of the tube is evenly distributed back around the periphery of the tank. The back-flush process ensures that any chemical treatment used during back-flush treats all the particulate material rather than just the material adjacent the collector tubes as in prior art processes where the collector tubes are used to deliver the back-flush water to the base of the tank.

DESCRIPTION OF DRAWING(S) - The drawing shows a cut-away view of the tube system illustrating the valves.

Outer tube (6)  
Inner tube (7)  
Cap (11)  
Spring (16)  
Piston (22)  
Water inlet (33)  
Bottom valve (45)  
Collector arms (46)  
Deflector (35)  
Deflector springs (42)  
pp; 26 DwgNo 3/9

Title Terms: COLLECT; BACK; FLUSH; APPARATUS; WATER; PROCESS; TANK;  
INCORPORATE; VALVE; VENTURI; FLUSH; SYSTEM; SO; PARTICLE; MATERIAL; BASE;  
TANK; FLUSH; WATER; DELIVER; BACK; TOP; TANK  
Derwent Class: J01; J04  
International Patent Class (Main): B01D-035/00; B01J-049/00  
File Segment: CPI

15/5/5 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011736422  
WPI Acc No: 1998-153332/199814  
XRAM Acc No: C98-049453

Biodegradable moulded product production, e.g. pocket book cover, file,  
raincoat, transparent umbrella, etc. - comprises fusing and welding  
plastic sheet containing lactic acid using high-frequency wave welder  
Patent Assignee: MITSUI TOATSU CHEM INC (MITK ); TOPPAN PRINTING CO LTD  
(TOPP )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10024492	A	19980127	JP 96199682	A	19960710	199814 B

Priority Applications (No Type Date): JP 96199682 A 19960710

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 10024492	A	7	B29C-065/74	

Abstract (Basic): JP 10024492 A

A biodegradable moulded product is produced by fusing and welding a  
**plastic sheet**, containing lactic acid as its main component, using  
a high-frequency wave welder.

Preferably the elastic modulus in tension of the **plastic sheet**  
is pref 30,000 kgf/cm<sup>2</sup> or less. The **plastic sheet** is made of a  
copolymer comprising lactic acid and other hydroxy carboxylic acid,  
aliphatic polyhydric alcohol or an aliphatic polybasic acid. The  
content of the lactic acid in the copolymer is 50 - 99 wt%.

USE - The biodegradable moulded product is useful for a pocket book  
cover, file, raincoat, transparent **umbrella**, **beach** ball and other  
products.

ADVANTAGE - The biodegradable moulded product has high flexibility,  
transparency and does not degrade with time and causes no blocking. The  
used product can be discarded for producing compost or can be combusted  
to provide heat without by-producing any toxic gas.

Dwg.0/0

Title Terms: BIODEGRADABLE; MOULD; PRODUCT; PRODUCE; POCKET; BOOK; COVER;  
FILE; RAINCOAT; TRANSPARENT; **UMBRELLA**; COMPRISE; FUSE; WELD; PLASTIC;  
SHEET; CONTAIN; LACTIC; ACID; HIGH; FREQUENCY; WAVE; WELD  
Derwent Class: A23; A35; A83; A84; A86  
International Patent Class (Main): B29C-065/74  
International Patent Class (Additional): B29K-067-00; C08G-063/08  
File Segment: CPI

15/5/6 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011327626 \*\*Image available\*\*  
WPI Acc No: 1997-305530/199728  
XRPX Acc No: N97-253049



**Packing method of wet umbrella - involves fastening edges of water repellent plastic sheets , around periphery of folded umbrella**

Patent Assignee: IZUKI H (IZUK-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9117314	A	19970506	JP 96211837	A	19960708	199728 B

Priority Applications (No Type Date): JP 95231908 A 19950807

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9117314	A		3	A45B-025/24	

Abstract (Basic): JP 9117314 A

The method involves attaching a pair of edges (7,8) of a water repellent **plastic sheet** (5), around a **folded wet umbrella** . Then, the sheet edges are fastened at a substantial distance from hem part of **umbrella** .

ADVANTAGE - Avoids need for use of waterproof bag. Facilitates reuse of **plastic sheets** .

Dwg.2/4

Title Terms: PACK; METHOD; WET; **UMBRELLA** ; FASTEN; EDGE; WATER; REPEL; PLASTIC; SHEET; PERIPHERAL; **FOLD** ; **UMBRELLA**

Derwent Class: P24

International Patent Class (Main): A45B-025/24

International Patent Class (Additional): A45B-009/04

File Segment: EngPI

15/5/7 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011261395 \*\*Image available\*\*

WPI Acc No: 1997-239298/199722

XRPX Acc No: N97-197654

**Umbrella cover used in departmental stores - has multiple page like covers formed on plastic sheet by cutting lines, with which they are folded up**

Patent Assignee: MORIYAMA KASEI KK (MORI-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9075120	A	19970325	JP 95234435	A	19950912	199722 B

Priority Applications (No Type Date): JP 95234435 A 19950912

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9075120	A		4	A45B-025/24	

Abstract (Basic): JP 9075120 A

The cover includes a **plastic sheet** whose length is equal to the length of the **umbrella** . A cutting line is formed parallelly in the **plastic sheet** , that results in the formation of multiple bag like covers (10-1 - 10-5).

Cutting and uncutting parts are alternately formed in the cutting line. The bag like cover are **folded** using the cutting line.

ADVANTAGE - Improves efficiency. Prevents swelling of air.

Dwg.2/4

Title Terms: **UMBRELLA** ; COVER; DEPARTMENT; STORAGE; MULTIPLE; PAGE; COVER; FORMING; PLASTIC; SHEET; CUT; LINE; **FOLD** ; UP

Derwent Class: P24

International Patent Class (Main): A45B-025/24

File Segment: EngPI

15/5/8 (Item 5 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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003992640

WPI Acc No: 1984-138183/198422

XRAM Acc No: C84-058568

**Post of umbrella -type rotatable clothes drier - has releasable extension with hinged arms resting on drier arms and holding cover sheets**

Patent Assignee: VAN LENTHE G (VLEN-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
NL 8203850	A	19840501	NL 823850	A	19821004	198422 B

Priority Applications (No Type Date): NL 823850 A 19821004

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
NL 8203850	A		8		

Abstract (Basic): NL 8203850 A

The rotatable clothes drier comprises an upright post (1) with slidably adjustable bush (2) carrying hinged (4) arms (3) each provided with a pivot point (5) somewhere along its length for a stay (6) of which the radially inner end is hinged (7) to the post. Clothes lines (8) are arranged between the arms (3).

An extension (9) releasably securable (10,11) to the top of the post has hinges (12) at its upper end for further arms (13) of which the radially outer ends are slidably supported by the arms (13) when extended. The arm (13) are provided with lateral grooves or the like to permit securing covering material, e.g. waterproof **sheets of plastic** material, between them.

1/2

Title Terms: POST; **UMBRELLA** ; TYPE; ROTATING; CLOTHING; DRY; RELEASE; EXTEND; HINGE; ARM; REST; DRY; ARM; HOLD; COVER; SHEET

Derwent Class: F07

International Patent Class (Additional): D06F-057/04

File Segment: CPI

15/5/9 (Item 6 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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003657197

WPI Acc No: 1983-17182K/198307

XRAM Acc No: C83-016744

XRPX Acc No: N83-031641

**Inflatable umbrella - has valved tubular handle extending from lower panel sealed peripherally to cover sheet**

Patent Assignee: PITTMAN B R (PITT-I)

Inventor: PITTMAN B R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4370994	A	19830201				198307 B

Priority Applications (No Type Date): US 81235955 A 19810219

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
US 4370994 A 7

Abstract (Basic): US 4370994 A

**Umbrella** comprises a circular **plastic cover sheet** (12) with a **plastic panel** (16) sealed peripherally to it on one side to form an enclosed space, and flexible plastic tube (20) with one end sealed to the panel and communicating with the space. There is a valve (24) for blowing air through and releasing it from the tube and space, and a bag (32) at the other tube end to hold the sheet, panel and tube when the **umbrella** is collapsed.

Inflating the **umbrella** rigidifies the tube and supports sheet and panel in expanded state. There may be a one-way inlet valve and a second manually closable exhaust valve, the valves being mounted on a bulbous part (22) of the tube sized for easy manual use. There may be a drawstring around the sheet periphery so that it can be drawn into a hemispherical shape and its circumference can be varied.

2/11

Title Terms: INFLATE; **UMBRELLA** ; VALVE; TUBE; HANDLE; EXTEND; LOWER; PANEL ; SEAL; PERIPHERAL; COVER; SHEET

Derwent Class: A86; P24

International Patent Class (Additional): A45B-019/02

File Segment: CPI; EngPI

15/5/10 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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003143749

WPI Acc No: 1981-04292D/198104

**Garden cloche - mass produced umbrella with translucent plastic sheet covering and spike on handle**

Patent Assignee: RILETT J W (RILE-I); SAXBY M E (SAXB-I)

Inventor: RILETT J W; SAXBY M E

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2051537	A	19810121				198104 B
US 4327520	A	19820504				198220
GB 2051537	B	19830602				198322

Priority Applications (No Type Date): GB 7923444 A 19790705

Abstract (Basic): GB 2051537 A

A cloche has a mass-produced **umbrella** structure with a shaft mounting a **framework** and canopy with depth greater than half overall width when fully opened and of transparent or translucent plastics **sheet** . The shaft apex projects through the canopy and has a knob or handle, the other shaft end having a spike for pressing into the soil until the **framework** ends engage the soil.

The cloche may be formed from a complete **umbrella** by removing the handle from the shaft and using the remaining shaft end as the spike. The **framework** pref. has stretchers which when fully open are within an upper part of the canopy so that at least 3/4 of overall canopy height is left unobstructed.

Title Terms: GARDEN; CLOCHE; MASS; PRODUCE; **UMBRELLA** ; TRANSLUCENT; PLASTIC; **SHEET** ; COVER; SPIKE; HANDLE

Derwent Class: A97; P13

International Patent Class (Additional): A01G-013/04

File Segment: CPI; EngPI

18/5/1 (Item 1 from file: 347)  
DIALOG(R) File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

04457466 \*\*Image available\*\*  
HANGING COVER DEVICE

PUB. NO.: 06-101366 [JP 6101366 A]  
PUBLISHED: April 12, 1994 (19940412)  
INVENTOR(s): HIDA TAKAMICHI  
APPLICANT(s): TOSHIBA ENG & CONSTR CO LTD [415855] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 04-249732 [JP 92249732]  
FILED: September 18, 1992 (19920918)  
INTL CLASS: [5] E04H-015/04; E04H-005/02  
JAPIO CLASS: 27.2 (CONSTRUCTION -- Building); 42.1 (ELECTRONICS -- Electronic Components)  
JOURNAL: Section: M, Section No. 1638, Vol. 18, No. 374, Pg. 43, July 14, 1994 (19940714)

#### ABSTRACT

PURPOSE: To move outdoors an apparatus which needs moisture prevention, waterproofness, and dust protection. by enclosing the apparatus with a cylindrical **cover sheet** dangling below an **umbrella** part for hindering rainfall, and hanging the apparatus at a hanging part and transporting.

CONSTITUTION: A hang cover device is furnished with an **umbrella** part 16 for hindering rainfall and a detention part 21 for detantion with a crane hook 10 at the top of a longitudinally stretching trunk 15, and at its bottom a metal piece for hanging 11 is installed which has a hanging part 22 for hanging an object(s). A **frame** 13 in horizontal ring form is coaxially hung down at the metal piece 11 through wires 12, 12. A cylindrical **cover sheet** 14 at the opening in the undersurface is by the inside supported on the **frame** 13 by fastening the top of an auger-form roof to the under-part of the **umbrella** 16, and is dangled below the **umbrella**. This hang cover device is lifted by a crane, etc., and placed over the apparatus which needs moisture prevention, waterproofness, dust protection, etc., and the apparatus is covered with the **cover sheet** 14. The apparatus is hung down at the hanging part 22 and transported to the desired place.

18/5/2 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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009190869 \*\*Image available\*\*  
WPI Acc No: 1992-318305/199239  
XRPX Acc No: N92-243652

**Parasol or umbrella with interchangeable cover - has system of clip-on fastenings for attachment of cover sheet to stretching ribs, comprising plates attached to sheet and sleeves fitting over ribs**

Patent Assignee: REVELUT D (REVE-I)

Inventor: REVELUT D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2672076	A3	19920731	FR 911204	A	19910128	199239 B

Priority Applications (No Type Date): FR 911204 A 19910128

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
FR 2672076	A3	8	E04H-015/58	

Abstract (Basic): FR 2672076 A

The parasol or **umbrella** includes a **framework** (10-14) for securing the **sheet** (4) of the parasol immobile relative to its supporting pole (2) and its stretching ribs (3). The **framework** includes a number of sleeves (10,11) attached to the inner face of the **sheet**, through which the ribs pass.

At least some (10) of the sleeves are blocked at one end to form end-stops for the free ends of the ribs. The inner face of the **sheet** includes a number of rigid plates (14) positioned adjacent to the sleeves, which they engage by means of a clip-type fastening.

ADVANTAGE - Allows rapid, simple interchange of parasol **cover sheet** without replacement of whole assembly.

Dwg.2/5

Title Terms: PARASOL; **UMBRELLA**; INTERCHANGE; COVER; SYSTEM; CLIP; FASTEN; ATTACH; COVER; **SHEET**; STRETCH; RIB; COMPRISE; PLATE; ATTACH; **SHEET**; SLEEVE; FIT; RIB

Derwent Class: Q46

International Patent Class (Main): E04H-015/58

File Segment: EngPI

18/5/3 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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004315857

WPI Acc No: 1985-142735/198524

XRFX Acc No: N85-107596

**Combination umbrella and parasol - has sleeves sliding on mast to support spokes carrying cover sheet**

Patent Assignee: BOTTIER Y (BOTT-I)

Inventor: BOTTIER Y

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2554490	A	19850510	FR 8317474	A	19831103	198524 B

Priority Applications (No Type Date): FR 8317474 A 19831103

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
FR 2554490	A	19		

Abstract (Basic): FR 2554490' A

The **umbrella** -parasol has a mast (10) with a **cover sheet** (20) which can be **folded** or extended. It has an upper sleeve (34) carrying the spokes (33) of which the ends support the **cover sheet**. A lower sleeve (50) slides on the mast and carries support spokes (53) articulated at their upper ends on the first spokes.

The upper sleeve can slide on the mast, the latter having a stop disc (12) engaging the sheet. Stops control the relative spacing of the upper and lower sleeves so that a minimum spacing is maintained between the first spokes and the **cover sheet**, in the deployed position.

2/8

Title Terms: COMBINATION; **UMBRELLA**; PARASOL; SLEEVE; SLIDE; MAST; SUPPORT ; SPOKE; CARRY; COVER; SHEET

Derwent Class: P24; Q46

International Patent Class (Additional): A45B-023/00; E04H-015/28

File Segment: EngPI

18/5/4 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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001329848

WPI Acc No: 1975-M3776W/197546

**Cover for opening in ship's hull - has umbrella like frame with  
apertured tubular stem for sealing compound**

Patent Assignee: OLIVIER J (OLIV-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2259009	A	19750926				197546 B

Priority Applications (No Type Date): FR 743347 A 19740125

Abstract (Basic): FR 2259009 A

The cover has a hollow stem (1). It has ribs and the **cover sheet** is made of flexible materials. The cover is pushed through the hole in the ship's hull and opened. It can then be pulled down to cover the hole. A plate with a central hole in it is applied to the inner side of the hull, and the plate and **umbrella** are tightened together by means of the nut (19). Sealing material may be pumped through the hollow stem to fill the space under the cover. The system may be used in any circumstances where it is necessary to restrict the flow of liquid.

Title Terms: COVER; OPEN; SHIP; HULL; **UMBRELLA** ; **FRAME** ; APERTURE; TUBE; STEM; SEAL; COMPOUND

Derwent Class: Q24

International Patent Class (Additional): B63B-043/16

File Segment: EngPI

21/5/1 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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011702750 \*\*Image available\*\*  
WPI Acc No: 1998-119660/199811  
XRPX Acc No: N98-095217

**Strutless umbrella** - includes central post, either an inner plunger or tube, and canopy assembly having ribs pivotally mounted on the upper end of post, with links connecting ribs to the inner plunger or tube

Patent Assignee: AMERICAN HOLTZKRAFT INC (AMHO-N)

Inventor: **APPLE P C**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5711332	A	19980127	US 96592527	A	19960126	199811 B
			US 96726475	A	19961007	

Priority Applications (No Type Date): US 96726475 A 19961007; US 96592527 A 19960126

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5711332	A	12	A45B-025/16		CIP of application US 96592527

Abstract (Basic): US 5711332 A

The **umbrella** includes a central post having an upper end, and a number of ribs surrounding the post. The ribs have upper ends, and rib pivot connections located a distance from the upper ends of the ribs. The connections join the ribs to the upper end of the post.

There is a member movable along the post, and a number of links, each link having a first link connection and a second link connection. The first-link connections join the links to the upper ends of the ribs, the second link connections join the links to the member. There is also a canopy on the ribs.

**ADVANTAGE** - The **umbrella** allows the user to open the **umbrella** by lifting one of the ribs rather than by sliding a collar. A mechanical advantage is achieved by applying the opening rotational force at a larger distance from the pivotal axis of the ribs. This is particularly helpful in opening heavy patio **umbrellas**. Additionally the user's hands and fingers are less likely to be pinched as they operate the **umbrella**.

Dwg.2,8/8

Title Terms: **UMBRELLA**; CENTRAL; POST; INNER; PLUNGE; TUBE; CANOPY; ASSEMBLE; RIB; PIVOT; MOUNT; UPPER; END; POST; LINK; CONNECT; RIB; INNER; PLUNGE; TUBE

Derwent Class: P24; Q46

International Patent Class (Main): A45B-025/16

International Patent Class (Additional): E04H-015/00

File Segment: EngPI

21/5/2 (Item 2 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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008680781  
WPI Acc No: 1991-184801/199125  
XRPX Acc No: N91-141594

**Rotating canopy umbrella** - has canopy assembly free rotate about axis of fixed centre post and disks of bearing material

Patent Assignee: AMER HOLTZKRAFT INC (AMHO-N); APPLE P C (APPL-I)

Inventor: **APPLE P C**

Number of Countries: 017 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5020557	A	19910604	US 90554555	A	19900719	199125 B
WO 9201402	A	19920206				199208

Priority Applications (No Type Date): US 90554555 A 19900719

Cited Patents: US 2241389; US 2465140; US 2561435; US 2859486; US 3177883;  
US 3784250; US 4312371; US 4319600; US 4505285; US 4567907; US 4622987

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9201402	A				
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Designated States (National): BR JP KR

Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU NL SE

Abstract (Basic): US 5020557 A

The canopy assembly consists of a number of ribs and struts surrounding the post and a fabric canopy attached to the ribs. The ribs are pivotally connected to a rotating hub at their inner ends and supported by a plurality of struts near their midpoints. The struts are pivotally connected at their inner ends to a second rotating hub that is located below the first hub and free to slide along the length of the post.

Sliding this bottom hub up along the length of the post opens the **umbrella**. A rigidly fixed end cap and stop restrain the top hub from sliding along the post while permitting the hub to rotate freely about its axis. A movable stop is used to secure the bottom rotating hub from sliding and may be pinned to the post at a variety of locations. Thin disks of bearing material are attached to the rotating hubs, stops, and end cap to ensure low-friction contact surfaces on which both hubs are free to rotate. (8pp Dwg.No.4/4)

Title Terms: ROTATING; CANOPY; **UMBRELLA**; CANOPY; ASSEMBLE; FREE; ROTATING  
; AXIS; FIX; CENTRE; POST; DISC; BEARING; MATERIAL

Derwent Class: P24

International Patent Class (Additional): A45B-011/00

File Segment: EngPI

**21/5/3 (Item 3 from file: 350)**

DIALOG(R) File 350:Derwent WPIX

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008305489 \*\*Image available\*\*

WPI Acc No: 1990-192490/199025

XRPX Acc No: N90-149785

**Automatic umbrella - includes central post with canopy assembly with  
spring and linkage mechanism**

Patent Assignee: AMER HOLTZKRAFT INC (AMHO-N)

Inventor: **APPLE P C**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4928718	A	19900529	US 89386436	A	19890728	199025 B

Priority Applications (No Type Date): US 89386436 A 19890728; US 88237432 A  
19880808

Abstract (Basic): US 4928718 A

The **umbrella** has a central post surrounding an interior spring which is stressed when the **umbrella** is closed. The spring is fixed to the lower end of the hollow post. The upper end of the spring is attached to a pair of strands, both of which extend up through the interior of the post, pass around pulleys mounted on the top of the post and then extend down the outside of the post to a sliding hub. The



sliding hub travels along a section of the post.

The **umbrella** canopy is supported by a number of ribs pivotally mounted to the top of the post above the pulleys. Struts support the frame ribs and pivotally interconnect the ribs and the sliding hub.

(6pp Dwg.No.3/4)

Title Terms: AUTOMATIC; **UMBRELLA** ; CENTRAL; POST; CANOPY; ASSEMBLE; SPRING  
; LINK; MECHANISM

Derwent Class: P24

International Patent Class (Additional): A45B-025/14

File Segment: EngPI

File 9:Business & Industry(R) Jul/1994-2002/Feb 21  
     (c) 2002 Resp. DB Svcs.  
 File 15:ABI/Inform(R) 1971-2002/Feb 23  
     (c) 2002 ProQuest Info&Learning  
 File 16:Gale Group PROMT(R) 1990-2002/Feb 22  
     (c) 2002 The Gale Group  
 File 20:Dialog Global Reporter 1997-2002/Feb 25  
     (c) 2002 The Dialog Corp.  
 File 111:TGG Natl.Newspaper Index(SM) 1979-2002/Feb 22  
     (c) 2002 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2002/Feb 22  
     (c)2002 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 553:Wilson Bus. Abs. FullText 1982-2002/Jan  
     (c) 2002 The HW Wilson Co  
 File 621:Gale Group New Prod.Annou.(R) 1985-2002/Feb 22  
     (c) 2002 The Gale Group  
 File 624:McGraw-Hill Publications 1985-2002/Feb 25  
     (c) 2002 McGraw-Hill Co. Inc  
 File 635:Business Dateline(R) 1985-2002/Feb 23  
     (c) 2002 ProQuest Info&Learning  
 File 636:Gale Group Newsletter DB(TM) 1987-2002/Feb 22  
     (c) 2002 The Gale Group  
 File 481:DELPHES Eur Bus 95-2002/Feb W3  
     (c) 2002 ACFCI & Chambre CommInd Paris

Set	Items	Description
S1	172631	UMBRELLA?
S2	71826	THATCH?
S3	366182	PALM OR PALMS OR BAMBOO?
S4	18067	PLASTIC(5N) SHEET?
S5	83	PALAPAS?
S6	716839	BEACH?
S7	56620	FRAME? AND SHEET?
S8	3688	COATING() LAYER? OR COVER() SHEET?
S9	405963	CLOSEABLE OR FOLD?
S10	69	S1(10N)S2
S11	25	S10 AND (S4 OR S6 OR S7 OR S8 OR S9)
S12	13	(S1 AND S2)/TI,LP
S13	1	S11 AND S12
S14	1	S11 AND (S7 OR S8)
S15	1	S14 NOT S13
S16	12	RD S12 (unique items)
S17	11	S16 NOT (S13 OR S14)
S18	28	S2()S1
S19	20	S18 AND (S4 OR S6 OR S7 OR S8 OR S9)
S20	19	RD (unique items)
S21	18	S20 NOT (S13 OR S14 OR S16)
S22	0	CO="AMERICAN HOLTZKRAFT"
S23	0	S18 AND S4
S24	1	S18 AND SHEET?
S25	0	S24 NOT (S13 OR S14 OR S16 OR S20)
S26	537	S9(5N)S1
S27	2	S26 AND S10
S28	2	RD (unique items)
S29	2	S28 NOT (S13 OR S14 OR S16 OR S20)
S30	0	S1 AND S2 AND S8
S31	3	S1 AND S5
S32	3	RD (unique items)
S33	2	S32 NOT (S13 OR S14 OR S16 OR S20 OR S28)

13/3,K/1 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

08962766 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Comment: A game that the whole family can play  
INDEPENDENT

January 01, 2000

JOURNAL CODE: FIND LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 674

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Jamaica, 10 of us plus granny, drinking sticky pink cocktails  
skewered with tropical fruit under **thatched umbrellas**, just like the  
advertisement. Talk about exhausting. No, seriously, I've been run off my  
...

The original plan was to stay in **Beaches**, the all-inclusive,  
upmarket family hotel at the far end, but needless to say it...

... being upgraded, but whose guests in the meantime have full use of both  
Sandals' and **Beaches**' leisure facilities, plus courtesy shuttle-bus  
which. . . Good grief, I'm beginning to sound like...

...her loft in favour of the sofabed, it was the couple working out on the  
**beach** in matching purple G-strings. "Shameless, downright shameless," she  
muttered as we helped her on to the bus.

I've spent most of my holiday shuttling. Down to **Beaches** with the  
children to water-ski, windsurf and play minigolf, up to Sandals to  
parasail...

...Mrs Rush who's been looking after the cat, and then back once more to  
**Beaches** by myself to my favourite sun- lounger and my new friend Lesley,  
whose husband ran...

15/3,K/1 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

21290685 (USE FORMAT 7 OR 9 FOR FULLTEXT)

A cabin in the canopy: A tree-house makes the perfect garden den for the children. Try building one yourself says Sharon Amos.

SHARON AMOS

DAILY TELEGRAPH, p01

February 16, 2002

JOURNAL CODE: FDTL LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 636

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... are limited only by your imagination and budget. Weatherproofing can be as simple as an **umbrella** -style canopy of roofing felt or as complicated as professional **thatching** .

And the growing market for tree-house design and construction means that specific equipment has...

... the bark and layers immediately beneath are alive. Coach screws are recommended for fixing a **framework** directly to a tree because they are strong and easy to use. Galvanised versions won...

... accidents. If you plan to glaze the windows, never use glass. Instead use indestructible polycarbonate **sheeting** . And, unless the window overlooks a deck, it is better left permanently fixed shut.

Further...

17/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

08749304 Supplier Number: 75831948 (USE FORMAT 7 FOR FULLTEXT)  
**Fleming's stores under single umbrella .(Brief Article)**  
DSN Retailing Today, v40, n12, p4  
June 18, 2001  
Language: English Record Type: Fulltext  
Article Type: Brief Article  
Document Type: Magazine/Journal; Trade  
Word Count: 95

(USE FORMAT 7 FOR FULLTEXT)  
**Fleming's stores under single umbrella .(Brief Article)**  
TEXT:  
...been established to coordinate with Fleming's Central Procurement operation. In a related announcement, Jim **Thatcher** has been appointed group vp sales and marketing for the Fleming Retail Group. His responsibilities...

17/3,K/2 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

17302676 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Review: Arts: The only way is up: Or is it? Tall buildings are in fashion but some critics fear there may be just too many architects reaching for the sky**  
DEYAN SUDJIC  
OBSERVER, p5  
June 10, 2001  
JOURNAL CODE: FOBS LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 1705

... his former ideological opponents with a passion that eclipses even Tony Blair's enthusiasm for **Thatcherism** . Either London buckles down and starts building skyscrapers with the abandon of a Shanghai or...an outsize refrigerator. One particularly sad case designed by Norman Foster has a giant red **umbrella** pinned ludicrously to its top left-hand corner. The most persuasive argument for building high...

17/3,K/3 (Item 2 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

14049458  
**Week in Westminster - Unsettling news**  
Brendan Carlin  
NORTHERN ECHO, p08  
December 02, 2000  
JOURNAL CODE: FTNE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 552

... for the cameras. And any suggestions that the Prime Minister tried to stick a cocktail **umbrella** and straw into his pint are entirely without foundation. SO did Downing Street order the...

...t think that's quite what he meant. WE know Tony Blair is no Margaret **Thatcher** . He's his own man - not some phoney version of the Iron Lady. Staff at...

...conference to boast how marvellous the New Deal started 15 minutes late.  
'Not in Margaret **Thatcher** 's day. She was right on time, every time,'  
said a misty-eyed Downing Street...

**17/3,K/4 (Item 3 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

12211467 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**The Gulf war 10 years on: Comment: Time to see the truth about ourselves  
and Iraq**  
DENIS J HALLIDAY  
GUARDIAN  
August 02, 2000  
JOURNAL CODE: FGDN LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 850

... year and we are responsible for genocide in Iraq. Saddam Hussein  
certainly gave Bush and **Thatcher** a gift when he invaded Kuwait in 1990.  
He facilitated the opening of the much-needed respectability of a UN  
**umbrella** for a US-led alliance to destroy Iraq.  
Why? Because despite the costly debacle of...

**17/3,K/5 (Item 4 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

10931194  
**Campaign brings out best in brusque 'Red Ken'**  
YOMIURI SHIMBUN/DAILY YOMIURI  
May 10, 2000  
JOURNAL CODE: FYOM LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 1039

... answer to the Conservative Party's centralization policy, strongly  
advocated by former Prime Minister Margaret **Thatcher** during the Tory era.  
Blair, however, does not seem satisfied with his political "achievement."  
The...

... a young secretary, Livingstone was wearing his trademark raincoat and  
holding a newspaper and an **umbrella** . He did not speak to any of the  
passengers around him, nor did he shake...

**17/3,K/6 (Item 5 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

08349941  
**Now & again: Not the place I knew**  
SUDHANSU MOHANTY  
STATESMAN (INDIA)  
November 22, 1999  
JOURNAL CODE: FSTN LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 520

... relief camp. But they came all the same, the hunger driving their  
shame away. Their **thatched** roofs had been blown off, the mud walls  
flattened, their trees uprooted. Only an incurable...

... it will take a few lifetimes for the sylvan canopy of trees to spread its **umbrella** and provide ecological insurance. I was still around when medical reports confirmed the outbreak of...

17/3,K/7 (Item 6 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

06275390 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Leading article: Inequality still widening: Work needed at both top and bottom**  
GUARDIAN  
July 19, 1999  
JOURNAL CODE: FGDN LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 581

... rise is the steepest since the late 80s, when large pay rises prompted even the **Thatcher** government to look at ways of curbing boardroom excesses. Stephen Byers, the trade and industry...

... clearly failed. Why should workers exercise restraint in the face of such executive greed? Two **umbrella** groups of the biggest corporate investors - the Association of British Insurers and the National Association...

17/3,K/8 (Item 7 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

06261733 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Inequality still widening: Work needed at both top and bottom**  
GUARDIAN  
July 19, 1999  
JOURNAL CODE: FGDN LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 581

... rise is the steepest since the late 80s, when large pay rises prompted even the **Thatcher** government to look at ways of curbing boardroom excesses. Stephen Byers, the trade and industry...

... clearly failed. Why should workers exercise restraint in the face of such executive greed? Two **umbrella** groups of the biggest corporate investors - the Association of British Insurers and the National Association...

17/3,K/9 (Item 8 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

04627436 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**It's good to do good. But must God, animals and Eton get the lion's share?**  
GUARDIAN  
March 15, 1999  
JOURNAL CODE: FGDN LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 1079

... despite the fact that we are actually giving less to charity. The young generation of **Thatcher**'s children is giving and volunteering even less. At this rate donating, doing good and...

... the charities themselves are well aware that they are in a state of crisis. Their **umbrella** organisation, the National Council for Voluntary Organisations, is conducting a major introspective review. The Charity...

17/3,K/10 (Item 9 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

02723306 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**The spiritual life just isn't doing the business: THE DIARY**  
JOHN MORTIMER  
INDEPENDENT ON SUNDAY  
August 23, 1998  
JOURNAL CODE: FINS LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 1007

... HAPPENED to the spiritual life? Did it die quietly when we discovered, in the early **Thatcher** years, that the rules of the marketplace were far more important than the dreams...

... millennium. It can't attract business sponsorship. Wordsworth communing with the universe under his lonely **umbrella**, Julia of Norwich in her cell, the metaphysical poets ecstatically in love with Jesus, would...

17/3,K/11 (Item 1 from file: 111)  
DIALOG(R)File 111:TGG Natl.Newspaper Index(SM)  
(c) 2002 The Gale Group. All rts. reserv.

03497261 Supplier Number: 08888639  
**America's nuclear umbrella is still vital, 2 allies say. (Margaret Thatcher and Helmut Kohl)**  
Fisher, Dan  
Los Angeles Times, v109, Sat ed, col 1, pA11  
March 31, 1990  
ISSN: 0458-3035 LANGUAGE: English RECORD TYPE: Citation  
COLUMN LENGTH: 21 col in

**America's nuclear umbrella is still vital, 2 allies say. (Margaret Thatcher and Helmut Kohl)**



21/3,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2002 Resp. DB Svcs. All rts. reserv.

03222930 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**CUBA LIBRE**

(Cuba: Changes in hotel and tourism industries over past 10 yrs are discussed)

TravelAge West, p 18

July 30, 2001

DOCUMENT TYPE: Journal; Industry Overview ISSN: 0041-1973 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1634

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...tourist numbers.

As a result, new resorts have sprung up on the island's spectacular **beaches**, and Havana has entered the early stages of a renaissance. While we may not have...

...Cuba -- the Cuba of sugar cane, colonial towns and the sea. Cuba boasts world-class **beaches** on its Atlantic and Caribbean sides, each offering the traveler a different experience. The Atlantic coast is home to Cuba's most popular **beaches** and the majority of its resort development. Currently, 11 new resort complexes are being developed...been to Cuba without seeing Havana?

Then, as I sat puffing my cigar under a **thatch umbrella**, watching the sun drop beneath the turquoise Caribbean, with no boats, jet skis or anything...

21/3,K/2 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

02100277 64974691

**With a twist**

Scarpa, James

Restaurant Business v99n23 PP: 73-74 Dec 1, 2000

ISSN: 0097-8043 JRNL CODE: RTB

WORD COUNT: 1154

...TEXT: part of that," he adds. A variety of Mexican beers are already served under palm- **thatched umbrellas** that create a casual, **beach** atmosphere where diners eat on patio tables surrounded by surfboards and aquariums.

Frazer says that...

21/3,K/3 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

02085890 63309437

**Catching the wave**

Macey, Daniel

Restaurant Business v99n21 PP: 55-69 Nov 1, 2000

ISSN: 0097-8043 JRNL CODE: RTB

WORD COUNT: 3031

...TEXT: older bars.

#### LATIN ACCENTS

Carlsbad, Cl-based Rubio's Baja Grill offers a low-key **beach** atmosphere and fast-- casual service.

Rubio's has sold more than 40 million of its...the patio. Checks average \$6, including beverages like Mexican beer. The setting is casual, Baja-**beach** ambiance incorporating aquariums, surfboards, and patio tables shaded by palm- **thatched umbrellas** .

Ralph Rubio founded his Baja Grill namesake

21/3,K/4 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

00817054 94-66446

#### Hoteliers' getaways

Solmo, Regan

Successful Meetings v42n13 (Part 1) PP: 52-55 Dec 1993

ISSN: 0148-4052 JRNL CODE: SMM

WORD COUNT: 2645

...TEXT: we've experienced anywhere in the Caribbean.

"You don't have to run to the **beach** early to stake out a claim: Spaced nicely on an ample white sand **beach** are huge **thatched umbrellas** , more than the number of guest rooms, each with two chaise longues, two **beach** chairs, and a table. And while on the **beach** you can sail, dive, ski, surf, or snorkel--all included in your daily tariff. It...

... and blufftop cottages, with fireplaces and verandas. The view overlooks a beautiful Mendocino County windswept **beach** and arches carved in giant rocks jutting out of the sea. The view makes you want to bundle up in sweaters and take long walks on the **beach** .

"The inn has a rustic decor that includes cathedral ceilings, massive fireplace and staircase, wood...

...resort, you're in heaven. From the superb entrees to the location on the sandy **beach** --which is a step from the ocean, salty marshes and moss-draped forests--it's...

... Star, AAA Five-Diamond hotel has what it takes to get my vote: great golf, **beach** , and intra-coastal access, meeting space, and guest rooms. It is 'hotelmen's heaven.'"

Ronald...about the kinds of food my wife and I liked."

Juan Romero Marriott's Harbor **Beach** Resort, Fort Lauderdale

#### LAS BRISAS

Carreta Escencia Clemente Mejia 5255, Acapulco, Mexico 39869, (52) 748...

... and as the "hallways"--between individual casitas--are streets, jeeps are used for transportation. The **beach** and pool club are ideal--they're set right on the bay."

Bill Lucas Arizona...

...in the heart of the Canadian Rockies. It's secluded and romantic.

and:

**PENANG MUTIARA BEACH RESORT**

Jalan Teluk Bahang, 11050, Penang, Malaysia, (60) 04-812-828 or (800) 223-6800...

...from the cutlery to the bed linen, is of the highest quality.

and:

**MAUNA KEA BEACH HOTEL**

One Mauna Kea Beach Drive, Kohala Coast, Hawaii 96743, (808) 882-7222 or (800) 882-6060, fax (808) 882-7657

"Arguably located on the best beach in the world."  
David Shackleton The Westin Kauai

\* HOTEL BEL-AIR

Blvd. General de Gaulle...

...of the prettiest, more sophisticated spots of the French Riviera. It has its own private beach and swimming pool by the beach ; the grounds are lush and immaculate; and you can dine outside on the terrace overlooking...

21/3,K/5 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

08598504 Supplier Number: 66966437 (USE FORMAT 7 FOR FULLTEXT)

**Beyond the Beaches .(description of attractions at Los Cabos, Mexico) (Brief Article)**

Gonzalez, Joan

Travel Agent, v301, n8, p156

Oct 16, 2000

Language: English Record Type: Fulltext

Article Type: Brief Article

Document Type: Magazine/Journal; Trade

Word Count: 1363

**Beyond the Beaches .(description of attractions at Los Cabos, Mexico) (Brief Article)**

... day in the country and do nothing but lie in a hammock under a palapa ( thatched umbrella ). For others, there is a hike into a palm tree-lined canyon (good boulder-hopping...

...stone arch that has become a symbol of Los Cabos, then continues on to Lovers Beach , a small sandy beach . Snorkeling equipment is included. Then there's a drive through downtown with time for shopping...

...history tour, with the exception that it takes dirt roads to Cabo Pulmo and the beach area on the East Cape. Small villages and ranches are visited along the way. It...Baja California Sur, is a popular shopping venue for Mexicans, and it has a lovely beach that is lined with small hotels and restaurants, and several beautiful and interesting offshore islands...

21/3,K/6 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

07841906 Supplier Number: 65240219 (USE FORMAT 7 FOR FULLTEXT)  
**An Enchanted Isle.(Cozumel, Mexico)**  
Arellano, Luisa Esquiroz  
Travel Agent, v301, nl, p5  
August 28, 2000  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1080

... swimmers, Cozumel's coast is mostly lined with black coral, with stretches of white-sand **beaches** in between. Offshore, fantastic coral reef formations surround the 180-square-mile island.  
All these...

...in a region known as the Colombia Lagoon, an environment of mangrove jungles, white-sand **beaches** and rock formations. The park has an observation deck that offers a ravishing view of...

...bar (tell clients to ask for coconut milk in its shell) facing a white sand **beach**, where clients can rent kayaks, rest under **thatch umbrellas** or play volleyball.  
For a view of early-20th-century Cozumel, recommend a stop at...

...person.  
A joy for sunbathers and snorkelers, Parque Chankanaab has undergone renovations. Palapa umbrellas and **beach** lounges line the swimming area, in which a large number of tropical fish can be...

...visit the Web site ([www.allegrosresorts.com](http://www.allegrosresorts.com)).  
The Costa Club Cozumel is a 180-room **beach** /dive resort. Rates start at \$72 per night, single or double. Call 800-FIESTA-1...

...or e-mail ([hotelcoz@cozumel.czm.com.mex](mailto:hotelcoz@cozumel.czm.com.mex)).  
The 150-room Paradisus Cozumel All-Inclusive **Beach** Resort has rates that range from \$90 to \$390 per person double. Call 800-336...

...Web site ([www.interconti.com](http://www.interconti.com)).  
The Sol Cabanas del Caribe features 40 rooms and eight **beachfront** cabanas. Rates range from \$75 to \$115 single or double. Call 800-336-3543 or...

21/3,K/7 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

07832205 Supplier Number: 65069378 (USE FORMAT 7 FOR FULLTEXT)  
**Paradise found in Phan Thiet.**  
Vietnam Investment Review, pS14  
July 24, 2000  
Language: English Record Type: Fulltext  
Document Type: Newspaper; Trade  
Word Count: 212

... of paths that weave through grasses and palms -- all of which eventually lead to the **beach**.  
Once seated in one of the resort's **beach** chairs under a **thatched umbrella**, perhaps sipping a drink whilst gazing out at a stretch of

unspoilt white sand and...

...in, you won't want to leave.

However, should you eventually venture away from the **beach** , perhaps due to a need to eat, you'll find the resort's restaurant a...

21/3,K/8 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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07650784 Supplier Number: 63637220 (USE FORMAT 7 FOR FULLTEXT)  
**Cozumel Au Naturel. (Cozumel, historical aspects, tourism) (Brief Article)**  
Gonzalez, Joan  
Travel Agent, v299, n12, p120  
May 29, 2000  
Language: English Record Type: Fulltext  
Article Type: Brief Article  
Document Type: Magazine/Journal; Trade  
Word Count: 691

... the renowned Jacques Cousteau. A superb climate, seas of myriad shades of blue and beautiful **beaches** , plus duty-free shopping, lure tourists to this little island, which measures just 30 miles...

...to Ramon Gonzalez Osorio, park director. The park covers 247 acres of mangroves, white-sand **beaches** , reefs and wildlife. Opened in August, it hosts birding groups hoping to spot some of...

...full-day birding trip averages \$75, depending on what is included.

The park's excellent **beachfront** restaurant serves such island specialties as lime soup, sea conch ceviche or the classic Yucatan dish, tortilla dipped in pumpkin-seed sauce and filled with diced hard-boiled egg. The **beach** has changing facilities, **thatched umbrellas** to sit under, kayaks for rent and a lifeguard. Another snorkeling center and restaurant will...

...sided truck also makes continuous rounds from the education center to the look-out towers, **beaches** , restaurant, lighthouse, and an interesting navigation museum displaying the evolution of seamanship and navigation from...

21/3,K/9 (Item 5 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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03276202 Supplier Number: 44514138 (USE FORMAT 7 FOR FULLTEXT)  
**Wild Island Beauty Graces St. Vincent & Grenadines: Caribbean Hideaways Offer Varying Degrees Of Tameness And Luxury**  
Tour & Travel News, v0, n0, pC14  
March 14, 1994  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1290

... required for dinner, though all request 'casual elegance' for women and collared shirts for men. **Beachwear** is taboo in town on St. Vincent. Advise your clients to pack lightly; carry-on...

...acre private resort that's reached by its small African-Queen-style ferries from Villa **Beach** . The 29 cottages and rooms are on the small white sand **beach** or built into the rocky hills amid flowering bushes.

With rattan furniture and handpainted floral...

...also the most dramatic vistas, and peacocks strutting in the gardens.

Young Island's small beach has several doubles hammocks covered with palapas (thatched umbrellas), and the resort's two 44-foot sailboats make excursions to nearby Mustique and Bequia...

...palm trees he planted are now magnificent specimens that dot the resort's pure white beaches and hilly interior. Small enough to be entirely private, big enough to offer secluded Atlantic beaches as well as the laid-back social scene around the resort, Palm Island is a popular daytrip. Cruise ships call at Palm Island once a week, but the beach is large enough for everyone. Palm's atmosphere is much more sociable and spirited than...

...baths, spacious bedrooms with tiled floors, and kitchen facilities, plus a sea view. Small, secluded beaches are just steps from the door of most houses, and hammocks under palapas are set...

...the island's Salt Whistle Bay always stare in disbelief: lush foliage and a perfect beach can be seen, but this unique resort's stone cottages are so cleverly placed that they are nearly invisible.

Salt Whistle Bay Beach is one of the most beautiful in the Caribbean For clients who like a little...

21/3,K/10 (Item 6 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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02978642 Supplier Number: 44037308 (USE FORMAT 7 FOR FULLTEXT)  
**Coconut Beach Resort Getting \$3 Million Make-Over**  
Tour & Travel News, v0, n0, p46  
August 16, 1993  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 281

(USE FORMAT 7 FOR FULLTEXT)  
**Coconut Beach Resort Getting \$3 Million Make-Over**  
TEXT:  
KAUAI, Hawaii - The 300-room Kauai Coconut Beach Resort, which only closed for one day after last September's Hurricane Iniki, is undergoing...  
... in the public areas and guest rooms will continue the island theme. Teak furniture and thatched umbrellas will be added to the pool area, and marble accents will be added in the...

...If guests provide documentation that a nearby, comparable resort has lower rates, the Kauai Coconut Beach will beat those rates.  
- DONNA MARINO

21/3,K/11 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

18206576 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**TRAVEL: I Turned Down Noel Coward, And Only Now When I Visit His Jamaica, Do I Realise What I Missed: Shirley Anne Field Finally Catches Up With 'the Master's' Stunning Retreat In The Caribbean**  
SHIRLEY ANNE FIELD  
MAIL ON SUNDAY (UNITED KINGDOM), p80  
August 05, 2001

JOURNAL CODE: FMOS    LANGUAGE: English    RECORD TYPE: FULLTEXT  
WORD COUNT: 1441

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... an English country sitting room, only more luxurious, overlooking the gardens and large, curved, private **beach** .

I've been in all sorts of places but this was, without question, one of...

...exactly the same. We rang for breakfast, which was served on our veranda overlooking the **beach** and garden.

This was a taste of true luxury - a crisp, pink tablecloth with matching...

...of cooked breakfast we wanted. All of it was served by our own waiter.

The **beach** was all of 50 yards away.

This was dotted by **thatched umbrellas** for very welcome shade. There was enough space between them for privacy.

Looking around, everyone seemed relaxed, tanned and rather elegant, which is fairly difficult on a **beach** .

That is, everyone except for Heather and myself; we were very white and covered in...

...blissful to worry about that. Most of the day, we lazed on the powdery-white **beach** , just taking in an occasional swim. Heather tried the pool. I tried the ocean.

At lunchtime, we sat at the **beach** bar having sandwiches and cold beer, and talked to Teddy, who'd been running the...band playing dance music under the stars.

Suddenly, everyone we had vaguely seen on the **beach** was dancing together beautifully. Not only did they not miss a step, they were all...

21/3,K/12        (Item 2 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

12422202 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Escape: A top concierge reveals all: At your service**

ROBIN BARTON

OBSERVER, p3

August 13, 2000

JOURNAL CODE: FOBS    LANGUAGE: English    RECORD TYPE: FULLTEXT  
WORD COUNT: 362

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... We have an evening show and a band that plays until midnight. There are three **beaches** at the hotel, all with **thatched umbrellas** and lighting and in the evenings you often see couples relaxing on the **beach** with a bottle of something, enjoying the Milky Way above them. Some even stay up...

21/3,K/13        (Item 3 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

11717568 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Travel: Cool luxury and hot jazz: Caribbean: Mike Bradley falls for the charms of St Lucia and its music**

MIKE BRADLEY

OBSERVER, p7

June 25, 2000

JOURNAL CODE: FOBS LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1401

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... There is so much to do - with four restaurants, three bars, tennis courts, swimming pool, **beach**, golf course and spa centre - that to reveal one's intention to explore the island...

... in the altogether more American-style surroundings of the Royal St Lucian hotel on Reduit **Beach**. A more public affair, most rooms look out on an elaborate swimming pool which snakes...

...who like to enjoy their parasolled planter's punches in a semi-submerged state. The **beach** itself was brochure-perfect: a long white strand punctuated by pink sails and caressed by...

... boats, jetskis, waterskiing et al, it would be easy to pass a week under a **thatched umbrella** there with a sack of novels for company.

What drew me away was the annual...

... whereas others were staged in the sensuous heat of tropical afternoons on palm-fringed, sandy **beaches**.

Billed as being 'to jazz what Jamaica's Sunsplash is to reggae', St Lucia Jazz...

**21/3,K/14 (Item 4 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

(c) 2002 The Dialog Corp. All rts. reserv.

10800905 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**RECOVERY: EAST TIMOR REBUILDS: Now at peace, the nation restarts its economy**

Penny Crisp and Warren Caragata, Dili

ASIaweek

May 05, 2000

JOURNAL CODE: FAWK LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1261

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... thrives. Its motel-type rooms cluster around a large patio set with tables shaded by **thatched umbrellas**. Dili harbor is across the road, even if goat droppings litter the dirty **beach**. The hotel is also a leading nightspot where foreigners gather to drink Australian beer and...

**21/3,K/15 (Item 5 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

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08570882 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Family travel: 24-Hour Room Service**

INDEPENDENT

December 04, 1999

JOURNAL CODE: FIND LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 535

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... of small villas furnished with native wood and rattan and set on a



palm-fringed **beach** .

... gardens to the cottages. And, if you're fed up with the plant life - and **beach** activities - you can indulge in a little open-air massage from the in-house masseuse under a secluded thatched canopy before retiring to the private **beach** to veg out beneath large **thatched umbrellas** .

Nightly entertainment includes a strolling Filipino band, but if that isn't your scene you can hop into a cyclo and head into town.

LOCATION, LOCATION, LOCATION

Ana Mandara Resort, **Beachside** Tran Phu Blvd, Nha Trang, Vietnam  
(tel: 00 84 58 829829 fax: 00 84 58...

21/3,K/16 (Item 6 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

04698452 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Travel: Learn how to do the rudeness rumba and enjoy the beach : For most visitors to the Gambia, relaxing by the sea means striking the balance between minimal civility and blatant bad manners.**

INDEPENDENT

March 20, 1999

JOURNAL CODE: FIND LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 886

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**Travel: Learn how to do the rudeness rumba and enjoy the beach : For most visitors to the Gambia, relaxing by the sea means striking the balance between...**

...to them for so long.

Most of those who visit the Gambia hardly leave their **beachside** hotels and never discover what the country has to offer. Why? Because they are frightened...

... not safe, and that people leaving the hotel without an escort are at risk from **beach** bums, hoodlums and goodness knows what else.

... said. Starting from Gatwick, you can be stretched out on your sun lounger under a **thatched umbrella** on the clean sand, sniffing the warm breeze off the Atlantic, in about five hours...

... same longitude as Greenwich, so there is no time difference and no jet lag. The **beach** runs north and south uninterrupted to the horizon, the climate at this time of year...

... warm and mostly calm, but with occasional rollers that would not disgrace a Cornish surfing- **beach** (boards can be hired). There are cheerful women selling fruit, children selling cakes and men selling trinkets, drugs . . .and their bodies.

You see the men jogging along the **beach** in the early morning, doing press- ups and exercises. Later you see the occasional fellow...  
...do not regret it.

What deters people from exploring are the bumsters - characters, including the **beach** joggers, who hang around the main hotels trying to befriend tourists who they hope will...

... be difficult to shake off. I spent one afternoon walking a full mile down the **beach** before finally getting rid of one particularly persistent bumster.

To be free in the Gambia...

... course for local journalists; one Sunday a group of them organised a picnic on the **beach** . The hotel guards, who are under instruction to keep

locals from loitering round the hotel...

... a glamorous local TV presenter, bristle with indignation. "I am not moving," she said. "This **beach** belongs to us." That is something of which the tour operators need reminding.

Features 26

21/3,K/17 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

07719352 SUPPLIER NUMBER: 16412299 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Montego Bay property offers guests the royal treatment. (Royal Sandals resort) (includes related articles on Montego Bay)**  
Travel Weekly, v54, n9, p38(2)  
Feb 2, 1995  
ISSN: 0041-2082 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1146 LINE COUNT: 00086

ABSTRACT: The Royal Sandals resort, in Montego Bay, offers its guests six nearby **beaches** and a private island on a 17-acre area. The suites themselves are spacious, and...

... size bed (all 190 rooms have them, no matter what their category), complete with two **beach** towels **folded** in the shape of fans on the bedspread, for some reason brought to mind the...

...and aloe, all packaged in a plastic, zippered pouch just perfect to take to the **beach** .

Or I should say **beaches** .

This 17-acre property has six of them, complete with lounge chairs and **thatched umbrellas** for shade.

On certain days, local vendors and artisans set up shop right on the

...

...mishmash of merchandise ranging from straw bags and sandals to paintings and T-shirts.

My **beach** browsing took me from an artist with a water-color in progress to a woman...

...familiar with Sandals Resorts may not remember the company having a Royal Sandals in its **fold** of Jamaican properties.

That's because it didn't until mid-December, when the Sandals...room is now deluxe; superior has changed to premium; gran' luxe to grande luxe; deluxe **beachfront** to grande luxe **beachfront** , and deluxe honeymoon **beachfront** now is known as grande luxe honeymoon **beachfront** .

The **beachfront** royal suite category has not changed.

Rates through March 31 range from \$700 per person...

...nights in a deluxe room to \$1,995 per person for seven nights in a **beachfront** royal suite.

For more information or to book, call (800) SANDALS.

21/3,K/18 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

07246628 SUPPLIER NUMBER: 15311501 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Management firm consolidates its island hotels. (Hawaiian Hotels & Resorts) (Selling Hawaii)**  
Bartlett, Tony  
Travel Weekly, v53, n29, p32(1)

April 14, 1994

ISSN: 0041-2082

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 579

LINE COUNT: 00045

...ABSTRACT: 1994. HH&R's Royal Lahaina hotel underwent renovation in 1993, and its Kauai Coconut **Beach** resort is undergoing remodeling to be completed in Oct 1994. HH&R has hired a...

... resort hotels -- Maui's 592-room Royal Lahaina Resort and the 311-room Kauai Coconut **Beach** .

"We are aiming for a consistency of service at all three hotels," said Glen Hogan...

...regional food and beverage director.

Kenneth Ching, formerly general manager of King Kamehameha's Kona **Beach** Hotel, will be responsible for food and beverages and for preparing menus with a Hawaiian...

...restaurant, bar, pool, salt water lagoon and four tennis courts.

Last fall, the Kauai Coconut **Beach** started a renovation program that it scheduled to be completed by October.

When the work...

...property will sport an island-theme decor in public areas, new landscaping, teak furniture and **thatched umbrellas** at the pool area.

The Royal Lahaina completed a major renovation program last year. HH...

...room charges and cancellation fees waived.

Plesant Travel Service also owns the 84-unit Kahana **Beach** Condominium on Maui and the 264-room Plesant Holiday Isle in Waikiki, both off which are operated by HH&R.

The Kahana **Beach** , which features studios and one-bedroom units, and Plesant Holiday Isle average high occupancy rates.

Since 1992, Kahana **Beach** , like the three full-service Hawaii properties, is included in the programs of major Hawaii...

...years ago when it became more involved in hotel management.

HH&R first managed Kahana **Beach** and Plesant Holiday Isle; then, in 1991, it took over the Royal Lahaina, which was...

...managed by Outrigger Hotels.

In 1992, the firm took over the management of Kauai Coconut **Beach** , which was previously Sheraton-managed.

HH&R's first brochure and a video featuring all...

29/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

03855243 Supplier Number: 45526991 (USE FORMAT 7 FOR FULLTEXT)  
**Dade Co.'s Security Efforts Result In Incident-Free Fair**  
Amusement Business, v0, n0, p29  
May 8, 1995  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 552

... other and chasing girls. They didn't like that, so we came up with  
beach **umbrellas** and got plush steel **folding** chairs that have a  
**thatched** roof with lattice on it. They like it better now.  
'We got the idea from...

29/3,K/2 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

07852539 SUPPLIER NUMBER: 16917516 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Dade Co.'s security efforts result in incident-free fair. (Dade County**  
**Youth Fair and Exposition)**  
Powell, Tom  
Amusement Business, v107, n19, p29(1)  
May 8, 1995  
ISSN: 0003-2344 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 553 LINE COUNT: 00052

... other and chasing girls. They didn't like that, so we came up with  
beach **umbrellas** and got plush steel **folding** chairs that have a  
**thatched** roof with lattice on it. They like it better now.  
"We got the idea from...

33/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

05797432 Supplier Number: 50288676 (USE FORMAT 7 FOR FULLTEXT)

**Paradise Found**

Glenn, Reed

Travel Agent, pM28

August 24, 1998

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1059

... lovely ocean views. The restaurant spills out onto beachside terraces with wrought-iron furniture and **umbrellas** . Two nearby bars of similar design offer appetizers and cocktails. Guests can also enjoy lunch or snacks all day on the beach under small **palapas** , palm trees and **umbrellas** in comfortable lounge chairs. An army of waiters patrols the beach until the late afternoon...

33/3,K/2 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

06811454 SUPPLIER NUMBER: 14048380 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Hurricane damage is minimal. (Acapulco, Mexico; Hurricane Calvin) (Brief Article)**

Travel Weekly, v52, n54, p53(1)

July 12, 1993

DOCUMENT TYPE: Brief Article ISSN: 0041-2082 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 109 LINE COUNT: 00008

Some trees were toppled along the Costera Boulevard and we lost a few **palapas** [thatch beach **umbrellas** ], but all in all we're in pretty good shape," reported Hector Iglesias, general director...

File 2:INSPEC 1969-2002/Feb W4  
 (c) 2002 Institution of Electrical Engineers  
 File 6:NTIS 1964-2002/Mar W1  
 (c) 2002 NTIS, Intl Cpyrght All Rights Res  
 File 8:Ei Compendex(R) 1970-2002/Feb W4  
 (c) 2002 Engineering Info. Inc.  
 File 14:Mechanical Engineering Abs 1973-2002/Jan  
 (c) 2002 Cambridge Sci Abs  
 File 25:Weldasearch 1966-2001/Jun  
 (c) 2002 TWI Ltd  
 File 31:World Surface Coatings Abs 1976-2002/Feb  
 (c) 2002 Paint Research Assn.  
 File 32:METADEX(R) 1966-2002/Mar B2  
 (c) 2002 Cambridge Scientific Abs  
 File 33:Aluminium Ind Abs 1968-2002/Feb  
 (c) 2002 Cambridge Scientific Abs  
 File 34:SciSearch(R) Cited Ref Sci 1990-2002/Feb W4  
 (c) 2002 Inst for Sci Info  
 File 35:Dissertation Abs Online 1861-2002/Feb  
 (c) 2002 ProQuest Info&Learning  
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 (c) fmt only 2002 Dialog Corp.  
 File 65:Inside Conferences 1993-2002/Feb W3  
 (c) 2002 BLDSC all rts. reserv.  
 File 87:TULSA (Petroleum Abs) 1965-2002/Feb W4  
 (c)2002 The University of Tulsa  
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 (c)2002 Japan Science and Tech Corp(JST)  
 File 95:TEME-Technology & Management 1989-2002Jan W3  
 (c) 2002 FIZ TECHNIK  
 File 96:FLUIDEX 1972-2002/Feb  
 (c) 2002 Elsevier Science Ltd.  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2002/Jan  
 (c) 2002 The HW Wilson Co.  
 File 103:Energy SciTec 1974-2001/Sep B2  
 (c) 2001 Contains copyrighted material  
 File 108:AEROSPACE DATABASE 1962-2001/DEC  
 (c) 2002 AIAA  
 File 118:ICONDA-Intl Construction 1976-2002/Apr  
 (c) 2002 Fraunhofer-IRB  
 File 144:Pascal 1973-2002/Feb W4  
 (c) 2002 INIST/CNRS  
 File 238:Abs. in New Tech & Eng. 1981-2002/Feb  
 (c) 2002 Reed-Elsevier (UK) Ltd.  
 File 239:Mathsci 1940-2002/Mar  
 (c) 2002 American Mathematical Society  
 File 240:PAPERCHEM 1967-2002/Feb W1  
 (c) 2002 IPST  
 File 248:PIRA 1975-2002Feb W4  
 (c) 2002 Pira International  
 File 293:Eng Materials Abs(R) 1986-2002/Feb  
 (c) 2002 Cambridge Scientific Abs  
 File 315:ChemEng & Biotec Abs 1970-2002/Dec  
 (c) 2002 DECHEMA  
 File 323:RAPRA Rubber & Plastics 1972-2002/Mar  
 (c) 2002 RAPRA Technology Ltd  
 File 335:Ceramic Abstracts 1976-2001/Q4  
 (c) 2001 Cambridge Scientific Abs.  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
 (c) 1998 Inst for Sci Info  
 File 77:Conference Papers Index 1973-2002/Jan  
 (c) 2002 Cambridge Sci Abs  
 File 266:FEDRIP 2002/Dec

Set	Items	Description
S1	7118	UMBRELLA?
S2	1847	THATCH?
S3	34621	PALM OR PALMS OR BAMBOO?
S4	22111	PLASTIC(5N) SHEET?
S5	1	PALAPAS?
S6	74797	BEACH?
S7	10600	FRAME? AND SHEET?
S8	10362	COATING() LAYER? OR COVER() SHEET?
S9	485652	CLOSEABLE OR FOLD?
S10	0	S1 AND S2
S11	8	S1 AND S3
S12	6	RD (unique items)
S13	5	S1 AND S4
S14	5	RD (unique items)
S15	5	S14 NOT S12
S16	0	S1 AND S5
S17	19	S1 AND S6
S18	0	S17 AND (S7 OR S8 OR S9)
S19	3	S1(5N)S6
S20	3	RD (unique items)
S21	3	S20 NOT (S12 OR S14)
S22	2	S17 AND (S2 OR S3)
S23	1	RD (unique items)
S24	0	S23 NOT (S12 OR S14 OR S20)
S25	1	S1 AND S8
S26	1	S25 NOT (S12 OR S14 OR S20)
S27	8	S1 AND S7
S28	2	RD (unique items)
S29	2	S28 NOT (S12 OR S14 OR S20 OR S25)
S30	2	AU="APPLE P"
S31	1	AU="APPLE, P."
S32	0	(S30 OR S31) AND S1

12/3,AB/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2002 Institution of Electrical Engineers. All rts. reserv.

6510140 INSPEC Abstract Number: C2000-04-3390-010

**Title: Positioning control of a rolling ball on a rotating umbrella by a kasamawashi robot**

Author(s): Watanabe, S.; Kouda, M.; Kiyohiro, N.  
Author Affiliation: Yamanashi Univ., Kofu, Japan  
Journal: Advanced Robotics vol.13, no.3 p.339-41  
Publisher: VSP,  
Publication Date: 1999 Country of Publication: Netherlands  
CODEN: ADROEI ISSN: 0169-1864  
SICI: 0169-1864(1999)13:3L:339:PCRB;1-#  
Material Identity Number: L570-2000-001  
Language: English

Abstract: Kasamawashi is one of the traditional Japanese performance arts. A kasamawashi performer keeps the position of a rolling object on a rotating Japanese umbrella made of bamboo and sheared hemp cloth. A ball made of thread a metal-ring or a square measuring box are used as the object. A kasamawashi performer requires considerable skill, because the object on the rotating umbrella is very unstable. The performer controls the position of the object by subtly changing the revolution speed and slant angle of the umbrella. The basic performance method in kasamawashi is called 'mari no mawashiwake'. We have developed a robot to perform mari no mawashiwake. We describe how the ball position on the umbrella, which is intrinsically unstable, can be controlled by using the PID control scheme. The robot controls the position of the ball, but the ball oscillates around the desired position with an amplitude of about 6 cm. This oscillation is caused by the distortion of the umbrella.

Subfile: C

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12/3,AB/2 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2002 Inst for Sci Info. All rts. reserv.

06259091 Genuine Article#: YE873 Number of References: 43

**Title: Tent construction and social organization in Cynopterus brachyotis (Muller) (Chiroptera: Pteropodidae) in Peninsular Malaysia (ABSTRACT AVAILABLE)**

Author(s): Tan KH; Zubaid A (REPRINT) ; Kunz TH  
Corporate Source: UNIV KEBANGSAAN MALAYSIA,DEPT ZOOL/BANGUI  
43600/SELANGOR/MALAYSIA/ (REPRINT); UNIV KEBANGSAAN MALAYSIA,DEPT  
ZOOL/BANGUI 43600/SELANGOR/MALAYSIA/; BOSTON UNIV,DEPT  
BIOL/BOSTON//MA/02215

Journal: JOURNAL OF NATURAL HISTORY, 1997, V31, N11 (NOV), P1605-1621

ISSN: 0022-2933 Publication date: 19971100

Publisher: TAYLOR & FRANCIS LTD, ONE GUNPOWDER SQUARE, LONDON, ENGLAND EC4A  
3DE

Language: English Document Type: ARTICLE

Abstract: This study examined the tent-making behaviour and social organization of the lesser dog-faced fruit bat, *Cynopterus brachyotis* (Muller), in Peninsular Malaysia. *Cynopterus brachyotis* alters the leaves of eight species of broad-leaved palms (Palmae) to form palmate umbrella tents, the leaves of *Scindapsus aureus* Engl. (Araceae) to form apical tents, and the leaves of *Dracaena fragrans* Ker-Gawl (Liliaceae) to form conical tents. *Cynopterus brachyotis* also severed the roots of *Cymbidium finlaysonianum* Lindl (Orchidaceae), and the leaves and stems of *Philodendron lacerum* Schott (Araceae) to form stem tents. In addition, *C. brachyotis* also roosted in unmodified plants. *Cynopterus brachyotis* possesses a harem type of social



organization, but it was not possible to distinguish between a resource-defence polygyny and female-defence polygyny mating system. Our observations indicate that dominant males construct tents, and recruit females for the purpose of gaining reproductive access.

12/3,AB/3 (Item 2 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2002 Inst for Sci Info. All rts. reserv.

04584576 Genuine Article#: TV265 Number of References: 35  
**Title: TENTS AND HAREMS - APPARENT DEFENSE OF FOLIAGE ROOSTS BY TENT-MAKING BATS** (Abstract Available)  
Author(s): KUNZ TH; MCCracken GF  
Corporate Source: BOSTON UNIV,DEPT BIOL,5 CUMMINGTON ST/BOSTON//MA/02215  
Journal: JOURNAL OF TROPICAL ECOLOGY, 1996, V12, JAN (JAN), P121-137  
ISSN: 0266-4674  
Language: ENGLISH Document Type: ARTICLE  
Abstract: Palmate **umbrella** tents used by tent-making bats in Trinidad, West Indies, were observed in three species of Neotropical **palms**, *Sabal mauritiiiformis*, *Coccothrinax barbadensis* and *Mauritia flexuosa*. Tents were most common in **palm** leaves that have supporting petioles angled at 50-70 degrees above the horizontal. The shape and volume of tents is influenced mostly by leaf morphology (leaf width and leaflet length) and age of the tent. Tent-crowns varied from being heart-shaped in *S. mauritiiiformis*, oval or round in *C. barbadensis* and spade-shaped in *M. flexuosa*. Leaves in which tents were constructed were most often beneath overhanging vegetation, and were generally free of vegetation below, allowing bats to enter and depart from tents without being impeded by the clutter of adjacent vegetation.  
Singles and small apparent harem groups of two bat species, *Artibeus jamaicensis* and *Uroderma bilobatum*, were captured and observed in tents made from the leaves of *S. mauritiiiformis* and *C. barbadensis*. No bats were observed in tents constructed in leaves of *M. flexuosa*. The apparent harem social organization in these and other tent-making bat species suggests that leaves modified into tents may provide critical and defendable resources that promote the evolution of polygyny. This hypothesis is based on the observed patchy distribution of suitable **palm** trees, the inappropriateness of many **palm** leaves as potential tents and the resultant architecture provided by palmate **umbrella** tents. We suggest that tent-making is an adult male behaviour.

12/3,AB/4 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

01591646 AAD9731184  
**MORE THAN AMENITY ALONE: A SOCIAL HISTORY OF RETIREMENT IN THE CENTURY VILLAGES, 1968-1992 (FLORIDA)**  
Author: LINSIN, CHRISTOPHER EDWARD  
Degree: PH.D.  
Year: 1997  
Corporate Source/Institution: THE FLORIDA STATE UNIVERSITY (0071)  
Source: VOLUME 58/04-A OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1424. 310 PAGES

The study of aging has escaped the attentions of most social historians. Stimulated by the social-consciousness movements of the 1960s and the attention accorded the aged by social scientists, a small group of social historians began examining aging. Most of these studies focused on the material position older people held in society. Few examined the

history of retirement. Historians, countering the claims of social scientists who touted the influence of modernization theory as a major dynamic explaining the elderly's position in society, argued that human agency played a greater role than previously assumed.

Following U.S. victory in World War Two, America's elderly enjoyed growing financial benefits from subsequent amendments to the Social Security Act of 1935. Improved social security legislation, along with the institutionalization of retirement pensions, enabled older people to retire early. Healthy, mobile, and increasingly affluent, retirees left the urban centers of the Northeast and Midwest for retirement destinations in the Sunbelt. Florida, by 1995, had drawn large numbers of these retirees into its southern counties of **Palm Beach** and Broward.

In the late 1960s, real estate developer, H. Irwin Levy, started the marketing of a retirement lifestyle, aiming to alter stereotypical views of retirement. Levy's Century Village "lifestyle" proved enormously successful with the approximately 75,000 predominantly-Jewish retirees who moved into Levy's four Century Villages in West **Palm Beach**, Deerfield Beach, Boca Raton, and Pembroke Pines, Florida, from the Greater New York area. With Florida's aged population approaching one-fourth the state's population by the mid-nineties, the state, reflecting future national demographic trends, serves as an important area for the study of retirement. Throughout two decades, residents of the four Century Villages effected important changes in Florida. Century Villagers pursued an active and highly social-oriented lifestyle that reflected the significance of generational and cultural identities established long before migration to the Villages. Organizing themselves into condominium owners **umbrella** associations, Century Villagers managed to exercise significant control over the daily maintenance and operation of the their respective communities. Residents of the Villages altered the course of subsequent condominium law in Florida, and transformed the frontiers of aging.

12/3,AB/5 (Item 1 from file: 144)  
DIALOG(R)File 144:Pascal  
(c) 2002 INIST/CNRS. All rts. reserv.

02485880 PASCAL No.: 80-0231161  
**ANOTHER NAME FOR THE UMBRELLA BAMBOO**  
SODERSTROM T R  
SMITHSONIAN INST.,WASHINGTON DC 20560,USA  
Journal: BRITTONIA, 1979, 31 (4) 495  
Language: ENGLISH  
THAMNOCALAMUS SPATHACEUS COMB. NOV.

12/3,AB/6 (Item 1 from file: 323)  
DIALOG(R)File 323:RAPRA Rubber & Plastics  
(c) 2002 RAPRA Technology Ltd. All rts. reserv.

00688291  
**TITLE: UMBRELLA RIB FABRICATION METHOD**  
**AUTHOR(S): I-Tsung F**  
**PATENT NUMBER: US 5722135 A**  
**PATENT DATE: 19980303**  
**PATENT COUNTRY/KIND CODE: US A**  
**APPLICATION NUMBER: US 783154 (US 783154-1997)**  
**APPLICATION DATE: 19970114**  
**JOURNAL ANNOUNCEMENT: 199810 RAPRA UPDATE: 199819**  
**DOCUMENT TYPE: Patent**  
**LANGUAGE: English**  
**SUBFILE: (R) RAPRA**  
**ABSTRACT: A resin compound is bonded to the inside of a **bamboo** tube and the bonded tube is cut into pieces, each having a flat **bamboo** base**

and a resin rib body bonded to one side of the **bamboo** base.

15/3,AB/1 (Item 1 from file: 33)  
DIALOG(R)File 33:Aluminium Ind Abs  
(c) 2002 Cambridge Scientific Abs. All rts. reserv.

709008 86-470209

**Production of Article Having Aluminum (Alloy) Substrate.**

CORPORATE SOURCE: Nemoto Seisakusho

PATENT NO: JP85262639A-KoKai

PATENT COUNTRY: Japan

APPLICATION DATE: 9 June 1984

JOURNAL ANNOUNCEMENT: 8606

ABSTRACT: Method comprises oxidizing the surface of Al or Al alloy sheet to form an oxide layer with thickness of 5  $\mu$ m or less, forming an interlayer of flexible plastics on the oxide layer, forming a surface layer made of hard plastics on the interlayer, and shaping the laminated sheet by press drawing. Preferably the surface of Al (alloy) sheet is oxidized with solution of, e.g. bichromic acid, bichromate. The flexible plastics is, e.g. PVC, an EVA, whose surface may be printed for decoration. The hard plastics is, e.g. polyurethane, an acrylic resin. Aluminum (alloy) sheet, surface-treated and coated in the form of sheet, can be punched out or drawn into, e.g. cap of a vessel, handle of an umbrella, dial, push button, with low cost and without generation of cracks.--DCPI.

15/3,AB/2 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2002 Japan Science and Tech Corp(JST). All rts. reserv.

01282888 JICST ACCESSION NUMBER: 91A0262298 FILE SEGMENT: JICST-E

**An energy saving wheel." Tension Disc "**

NISHIMOTO TAKASHI (1)

(1) Nippon Steel Chemical Co., Ltd.

Nenryo Kyokaishi(Journal of the Fuel Society of Japan), 1991, VOL.70,NO.2,  
PAGE.198, FIG.2

JOURNAL NUMBER: F0217AAH ISSN NO: 0369-3775 CODEN: NENKA

UNIVERSAL DECIMAL CLASSIFICATION: 629.322.2

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

ABSTRACT: Using hub and rim for a bicycle, a pair of flexible fiber reinforced membrane is pitched like an **umbrella** between these hub and rim along with spokes. This wheel is light, and the air resistance is little in high-speed rotation, and a cushioning function is good. For this reason, the energy saving effect is high, and this wheel is noticed as a wheel for a racing bicycle and for a solar car. The membrane structure : twist strings of aramid fibre which impregnated with the **plastic** resin are sandwiched between 2 **sheets** of the resin film.

15/3,AB/3 (Item 1 from file: 103)  
DIALOG(R)File 103:Energy SciTec  
(c) 2001 Contains copyrighted material. All rts. reserv.

01352464 EDB-84-050143

**Title: New technique for underground homes**

Author(s): Langa, F.S.

Source: Rodale's New Shelter (United States) v 4:7. Coden: RNSHD

Publication Date: Sep 1983 p 98-100

Language: English

Abstract: The world's first underground geodesic dome was built in Missoula, Montana. This innovation, which uses an insulation **umbrella**

constructed of interleaved **plastic sheeting** and polystyrene insulation, holds heat, sheds water, and costs about 35% less than installed cost of a high-tech elastomeric system applied over an equivalent amount of foam insulation. By day and during summer, the earth bubble surrounding the dome is charged with free ambient warmth. By night and during winter, the stored heat returns to warm the house.

15/3,AB/4 (Item 1 from file: 323)  
DIALOG(R) File 323:RAPRA Rubber & Plastics  
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00765263

**TITLE: SEATTLE MARINERS' NEW BALLPARK USES PVC ON RETRACTABLE ROOF**

**SOURCE:** Plastics in Building Construction; 24, No.2, 2000, p.8

**ISSN:** 0147-2429

**JOURNAL ANNOUNCEMENT:** 200005 **RAPRA UPDATE:** 200009

**DOCUMENT TYPE:** Journal Article

**LANGUAGE:** English

**SUBFILE:** (R) RAPRA

**ABSTRACT:** This concise article provides brief details on the use of two thicknesses of PVC sheet for a retractable "**umbrella**" roof and its guttering. The huge roof covers the Seattle Mariners' baseball team stadium.

15/3,AB/5 (Item 2 from file: 323)  
DIALOG(R) File 323:RAPRA Rubber & Plastics  
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00348878

**TITLE: MURRAY & ROBERTS PLASTICS IS SETTING A HOT PACE IN THE INDUSTRY**

**SOURCE:** Plastics Southern Africa; 17, No.3, Oct.1987, p.24

**ISSN:** 0149-4899

**JOURNAL ANNOUNCEMENT:** 198805 **RAPRA UPDATE:** 198807

**DOCUMENT TYPE:** Journal Article

**LANGUAGE:** English

**SUBFILE:** (R) RAPRA

**ABSTRACT:** The consolidation of Ampaglas, Empro Manufacturing and Vikon Skylite under the **umbrella** of Murray & Roberts Plastics in South Africa is discussed. The activities of the three companies are detailed with reference to the polycarbonate sheeting products of Ampaglas, thermoformed packaging and furniture from Empro and architectural skylight systems from Vikon.

21/3,AB/1 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2002 Inst for Sci Info. All rts. reserv.

08248494 Genuine Article#: 262RW Number of References: 18

**Title: Ambient ultraviolet radiation levels in public shade settings** (ABSTRACT AVAILABLE)

Author(s): Moise AF (REPRINT) ; Aynsley R

Corporate Source: JAMES COOK UNIV N QUEENSLAND, SCH MATH COMP SCI & PHYS/TOWNSVILLE/QLD 4811/AUSTRALIA/ (REPRINT); JAMES COOK UNIV N QUEENSLAND, AUSTRALIAN INST TROP ARCHITECTURE/TOWNSVILLE/QLD 4811/AUSTRALIA/

Journal: INTERNATIONAL JOURNAL OF BIOMETEOROLOGY, 1999, V43, N3 (NOV), P 128-138

ISSN: 0020-7128 Publication date: 19991100

Publisher: SPRINGER VERLAG, 175 FIFTH AVE, NEW YORK, NY 10010

Language: English Document Type: ARTICLE

**Abstract:** As people become better informed about the harmful effects of prolonged exposure to solar ultraviolet radiation (UVR, 280-400 nm) they will seek the protection of shade, particularly in tropical locations such as Townsville (19 degrees south). Using broad-band radiation sensors for solar ultraviolet-B (280-315 nm), ultraviolet-A (315-400 nm) and daylight (400-800 nm) radiation, the exposure levels were measured in both the horizontal (shaded and unshaded) and vertical (shaded and unshaded) directions. The measurements were conducted at eight locations (shade settings) in Townsville during the period between December 1997 (summer) and May 1998 (beginning of winter). The quality of protection was assessed by the ratio of unshaded to shaded radiation exposure, the UVB/shade protection ratio (WB-SPR). The WB-SPR varies considerably between the different shade settings, with a **beach umbrella** showing the least protection and dense foliage the highest protection. The roof of a house verandah can provide only little protection if the verandah catches the afternoon sun. Increasing cloud cover decreases the UVB-SPR for all settings because of the increase in the diffuse fraction of the radiation. Only one setting provided a UVB-SPR of 15 or higher, as suggested for protective shading against solar UVB radiation. Shade from direct sunlight alone does not provide enough protection against: high levels of solar UVR. Apart from the transmission qualities of the shading material, it is the construction of the whole shade setting that determines the exposure levels underneath. A shade structure with enough overhang is recommended so that high levels of scattered radiation do not reach the skin.

21/3,AB/2 (Item 1 from file: 323)  
DIALOG(R)File 323:RAPRA Rubber & Plastics  
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00416033

**TITLE: UNIQUE COMPOSITE FOR SUN SHIELDS**

SOURCE: Composites & Adhesives Newsletter; 6, No.4, April/May 1990, p.6

ISSN: 0888-1227

JOURNAL ANNOUNCEMENT: 199105 RAPRA UPDATE: 199107

DOCUMENT TYPE: Journal Article

LANGUAGE: English

SUBFILE: (R) RAPRA

**ABSTRACT:** A flexible composite material for shielding against sunlight, developed by Mitsubishi Heavy Industries and Fujimori Kogyo of Japan, is briefly described. The material consists of four layers bonded together, i.e. a white ceramic-filled PU for light reflection, an aluminium foil, a low-density polyester for insulation, and nylon fabric for reinforcement. Potential applications include automobile covers, **beach umbrellas**, tents and other outdoor structures. This

abstract includes all the information contained in the original article.

21/3,AB/3 (Item 2 from file: 323)  
DIALOG(R) File 323:RAPRA Rubber & Plastics  
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00388178

**TITLE: RUBBERY SHIELD STOPS SUN**

SOURCE: European Rubber Journal; 171, No.10, Nov.1989, p.18

ISSN: 0260-5317

CODEN: ERJTDW JOURNAL ANNOUNCEMENT: 199002 RAPRA UPDATE: 199002

DOCUMENT TYPE: Journal Article

LANGUAGE: English

SUBFILE: (R) RAPRA

ABSTRACT: A new rubber-like material that shields sunlight and is heat insulating has been developed jointly by Mitsubishi Heavy Industries and Fijimori Kogyo Co. The thin, white, virtually opaque sheet consists of four layers bonded together with an unspecified adhesive. Possible applications include car covers, beach umbrellas, and tarpaulins for tents and other outdoor structures.

26/3,AB/1 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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05768737 Genuine Article#: WW725 Number of References: 19  
**Title: Water adsorption properties on porous silica glass surface modified by trimethylsilyl groups (ABSTRACT AVAILABLE)**  
Author(s): Takei T (REPRINT) ; Yamazaki A; Watanabe T; Chikazawa M  
Corporate Source: TOKYO METROPOLITAN UNIV,FAC ENGN, DEPT IND CHEM, 1-1 MINAMI OHSAWA/HACHIOJI/TOKYO 19203/JAPAN/ (REPRINT)  
Journal: JOURNAL OF COLLOID AND INTERFACE SCIENCE, 1997, V188, N2 (APR 15), P409-414  
ISSN: 0021-9797 Publication date: 19970415  
Publisher: ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495  
Language: English Document Type: ARTICLE  
Abstract: Nitrogen and water adsorption properties on the porous silica glass surfaces modified by different concentration of trimethylsilyl (TMS) groups were studied. The specific surface areas and parameter C values in the BET equation estimated from nitrogen adsorption decreased with increase in the surface concentration of the TMS groups and became constant values above 1.0 TMS group per nm(2). The water adsorption property suggested that a highly silylated sample still represented hydrophilic character in initial adsorption process. Water molecules interact with the residual hydroxyl groups existing under the **umbrellas** of the TMS groups and form clusters. Above the concentration of 1.0 TMS group per nm(2) the capillary condensation of water vapor did not occur. The TMS groups interrupt to build a two-dimensional network of each cluster. The formation of multilayer adsorption of water molecules depends on the magnitude of hydrophilic patch areas which are surrounded by TMS groups. (C) 1997 Academic Press.



29/3,AB/1 (Item 1 from file: 8)  
DIALOG(R) File 8: Ei Compendex(R)  
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05188689

E.I. No: EIP98124511562

**Title: Visualization and measurements of sub-millisecond transient spray dynamics applicable to direct injection gasoline engine (Part 1: Visualization of spray using high speed video camera and laser sheet technique)**

Author: Ismailov, Murad; Ishima, Tsuneaki; Takeda, Chikashi; Obokata, Tomio; Tsukagoshi, Masayoshi; Kobayashi, Kazumitsu

Corporate Source: Gunma Univ, Kiryu, Jpn

Source: JSME International Journal, Series B v 41 n 4 Nov 1998. p 983-990

Publication Year: 1998

CODEN: JSFPET ISSN: 1340-8054

Language: English

Abstract: Transient temporal and spatial spray characteristics have been investigated. A kind of practical fuel injector with swirl nozzle was examined under variable injection duration within the range of 0.25 to 4.0 ms and injection pressure 5.0 and 7.0 MPa. The fuel spray was injected at a cycling frequency of 50 Hz in a room under normal atmospheric condition. Considered details of sub-millisecond transient dynamics were observed by using a high-speed video camera with temporal resolution of 24.69  $\mu$ s (40 500 frames/s). The results indicate that investigated spray consists of two incorporated flow fractions that are a core jet and a quasi-umbrella droplets spray simultaneously moving down and swirling in local cross-axis domains. Instantaneous transient values of axial and radial penetration were accurately evaluated and analyzed. It was observed that after actual injection a post-injection of fuel droplets occurs and the time-delay and lifetime of these droplets were systematically estimated. (Author abstract) 11 Refs.

29/3,AB/2 (Item 1 from file: 239)  
DIALOG(R) File 239: Mathsci  
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03228699 MR 2002a#53011

**Investigation of singularities on world sheets of open relativistic strings.**

Klimenko, S. V. (Institute for High Energy Physics, 142284 Protvino (Moscow Region), Russia)

Nikitin, I. N. (Institute for High Energy Physics, 142284 Protvino (Moscow Region), Russia)

Corporate Source Codes: RS-HEP2; RS-HEP2

Theoret. and Math. Phys.

Theoretical and Mathematical Physics, 1998, 114, no. 3, 299--312

ISSN: 0040-5779 CODEN: TMPHAH

Source: Teoret. Mat. Fiz., (1998), 114, no. 3, 380--398 ISSN: 0564-6162

Language: English

Original Language: Russian Original Summary Language: Russian

Subfile: MR (Mathematical Reviews) AMS

Abstract Length: LONG (36 lines)

From the introduction (of the translation journal): ``The stability of singular points on surfaces obtained by smooth mappings from  $\mathbb{R}^2$  to  $\mathbb{R}^d$  can be analyzed in the framework of the theory of singularities of smooth mappings [V. I. Arnold, A. N. Varchenko and S. M. Gusein-Zade, Singularities of differentiable mappings (Russian), ``Nauka'', Moscow, 1982; MR 84m:58016; M. Golubitskii and V. Giiemin, Stable mappings and their singularities (Russian), Translated from the English by A. G. Kusunirenko, Izdat. ``Mir'', Moscow, 1977; MR 57\#7652]. For  $d=3$ , stable

singularities are isolated pinch points (in their vicinity, a surface has the Whitney **umbrella** shape). For  $d > 3$ , a surface of a general form is embedded in  $\mathbb{R}^d$ .

The behavior of singularities of string world **sheets**, the extremal area surfaces, is different in  $d$ -dimensional Minkowski space. This question was first considered in [G. P. Pronko, A. V. Razumov and L. D. Solovev, Soviet J. Particles and Nuclei 14 (1983), no. 3, 229--237; MR 86e:81096] for the case of closed string world **sheets** embedded in three-dimensional Minkowski space. It was shown that all such surfaces are singular surfaces; for a surface of general shape, the singularities on the world **sheet** are lines on which the constant time slices of the world **sheet** have cusps. It was noted in that paper that such singularities are connected with singular solutions of the two-dimensional Liouville equation investigated in [G. P. Dzordzadze, A. K. Pogrebkov and M. K. Polivanov, Teoret. Mat. Fiz. 40 (1979), no. 2, 221--234; MR 80j:81058; A. K. Pogrebkov, Teoret. Mat. Fiz. 45 (1980), no. 2, 161--170; MR 82k:58048].

We give a detailed classification of singularities on open-string world **sheets**. In Section 1, we demonstrate that the stable singularities of world **sheets** are lines for  $d=3$  and points for  $d=4$ . A world **sheet** in general has no singularities for  $d > 4$ . The global structure of singularities on the open-string world **sheet** is described in Sections 2 and 3. These singularities are interesting from the physical viewpoint.'

Reviewer: From the introduction



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inventor's  
Products

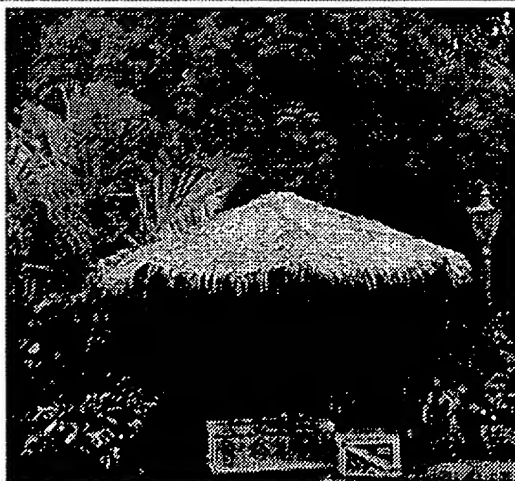
## Thatch COLLECTION

Why is American Holtzkraft Inc. world renown? Are we the biggest? Are we the best? Granted, it is a fairly small industry, but we believe the number one reason is because we do things no one in the world has done before. We have done the research and for two long years worked at making a quality, beautiful, useful, thatch umbrella that easily and quickly closes as well as it opens.

Our team of company and local central Florida experts walked out of our think tank with an additional bag of features we are fortunate to enjoy - even though unexpected. The first generation of the thatched umbrellas is constructed with a custom weaved palm thatch canopy.



*American Holtzkraft Thatch Umbrellas blend beautifully with natural surroundings or landscaped planting areas.*



#T701 6' Thatch Umbrella  
 #T702 8' Thatch Umbrella  
 #T705 12.5' Thatch Umbrella

#### STANDARD FEATURES

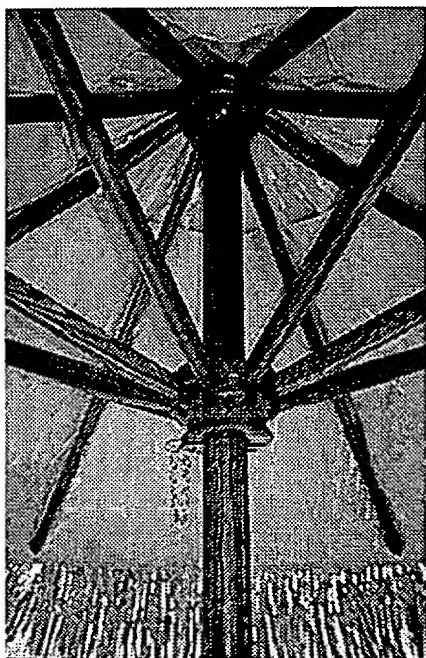
- 6 ft., 8 ft., or 12.5 ft. Octagon Canopy.
- Canopy is easily taken off or placed onto existing umbrella.
- Designed for water and air drainage allowing for long life of thatched canopy.
- Attractive both open or closed. Can be used with lights or other options.

#### OPTIONS

f1. Treatment for fire retardant uses.

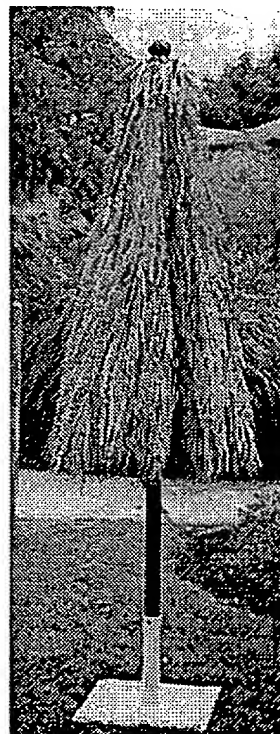


#T702 8' Octagon Umbrella  
 with Thatch cover canopy.  
 Stand available separately (#600 series).



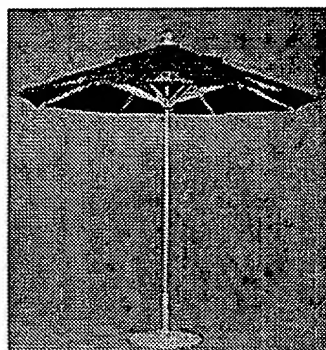
American Holtzkraft, Inc. Model #T701, #T702, and #T705 Thatch Umbrella frames are sand blasted and toned for authentic looking style. Note our custom weave pictured.

These unique umbrellas are manufactured exclusively at our Clermont, Florida Service Center.





Come visit us at  
booth number  
3106



International Collection  
Bistro Collection  
Nautical Collection  
Keystone Collection  
Keystone Umbrella Series  
Country Club Collection  
Resort Collection  
Theme Park Collection  
MegaShade Collection  
Stanchions & Pedestal Tables  
Umbrella Stand Series  
Thatch Collection  
Service Center Facility  
Products, Options  
& Replacement Parts  
Anatomy Of An Umbrella  
Hardwood Finishes  
Custom Design Series  
Contact Information  
Umbrellas In Use





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Adobe Acrobat

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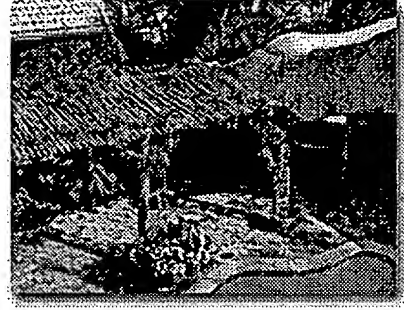
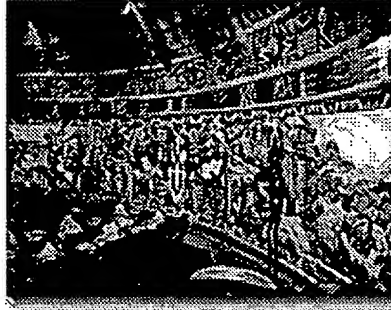
H. William Welliver III

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[claire@safarithatch.com](mailto:claire@safarithatch.com)

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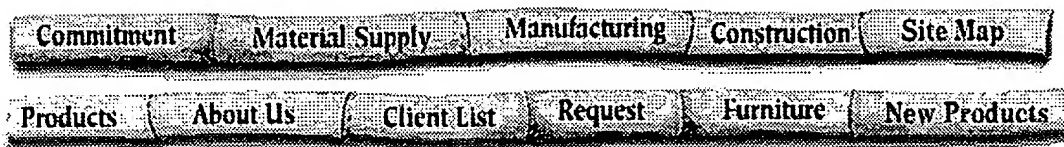
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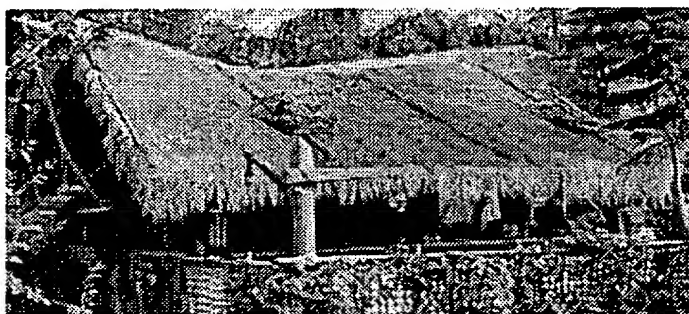
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## **Palm Thatch Made Easy!**

### **Mexican Rain Cape panels and Umbrella Capes**



*Mexican Rain Cape, Typhoon Lagoon, FL*

*Want a tropical bar or restaurant setting? Rain Cape is the most affordable way to create the look of authentic palm thatching. Perfect for creating that tropical thatch theme.*

**Application**

**Materials**



- Simple inexpensive approach to create that authentic palm thatch look.

- Can be used on any roof in place of regular roofing shingles, as well as on frame structures and umbrella frames.

- Not waterproof - purely shade covering.

- For applications requiring waterproofing, we recommend installing a regular subroof using regular 3/4" plywood substrate covered with felt or ice and water shield. Raise the Mexican Rain Cape panels above the solid substrate using a lattice of vertical and horizontal P/T furring strips - this prevents damming, and allows the panels to breath, increasing longevity.

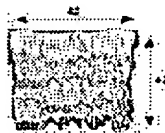
- For ideas on covering the underside (interior) of the plywood, take a look at our decorative covering materials.



*Mexican Rain Cape Bar, FL*

## Specifications

- Panel dimensions: 42" x 42" x 1/8" thick.
- Panel weight: 4.6lbs
- Umbrella Cape diameter: 7ft , 9ft and 12ft Material.



[Click to see larger diagram](#)

## Fire Retardancy

*There are two options available.*

- *Pre Treated Panels* -passes ASTM E-84 Class B - both interior and exterior fire retardant grades available. Simple and easy - ideal for avoiding overspray onto other high end finishes.
- *Fire retard on site* - can be retarded to ASTM E-84 Class B (interior or exterior) or Class A (interior only).

- These premium quality rain capes (120 knots per sqft) are hand-woven from palm leaf in Mexico.

- Replenishable, renewable resource.

## Durability

- Interior - Indefinite.
- Exterior- from 1-2yrs in wet, humid climates, twice as long in hot, dry climates.



*Pneumatically stapling Rain Cape sheets to furring strips.*

## Installation

- Simple DIY, no special skills reqd., faster than cedar shingles.
- Minimum suggested pitch is 30° (7in12), steeper pitch increases longevity.
- Installed in layered courses, at 42" on center, stapled to battens or a plywood subroof.
- For subsequent courses, allow the fringe of the next panel to overhang the panel in the preceding course.
- Panels are butted side to side.
- Each panel gives 12 sqft of roof surface coverage. Divide roof surface area by 12 to get quantity required.
- Umbrella capes simply fit over existing umbrella frames and/or canopies.
- Excess cape material can be tied into a finial at the umbrella apex to avoid excess material hanging low.



See [Fire Retardants](#) for more details.

*7ft. diameter Mexican  
Umbrella Rain Cape*

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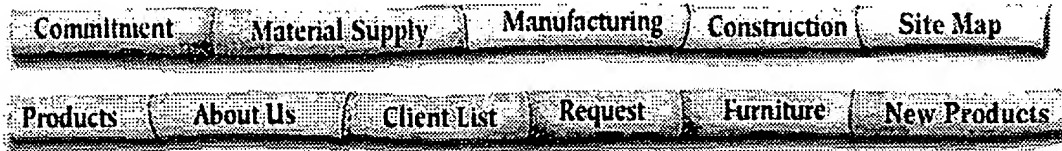
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## **Origins**



### ***Safari Thatch and Bamboo, Inc.***

Material Supply      Custom Manufacturing      On-Site Construction      Furniture

Founded in 1984 by Garth and Laraine Wight, Safari Thatch and Bamboo has, over the years, grown from humble beginnings to be the undisputed leader in the creation of jungle themed environments.

Safari's philosophy of recruiting and retaining world-class talent has ensured an exceptional staff driven to satisfy our customer needs. our success is embodied in our people.

Stimulated by challenge, Safari has embraced technology and change, and created a group of dynamic and flexible companies capable of satisfying just about any customer requirement. From this approach has evolved our simple motto:

**YES WE CAN!**

We are problem solvers, and we love to rise to your challenges. Over the past few years Safari has evolved into 4 separate and distinct operations - a material supply company, a custom manufacturing operation, a construction division, and a furniture division.

[go to top](#) - Origins

### **Professional Association Memberships**

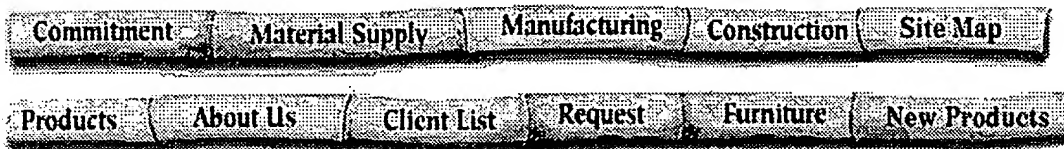


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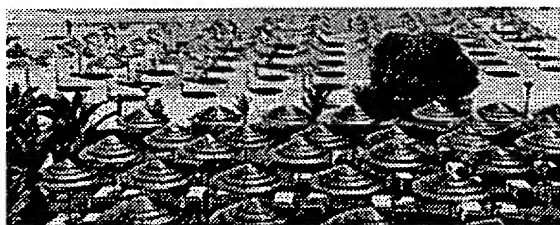
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## **Cool Tropical Shade!**

### **Natural Thatch Reed Umbrellas**



*7 Ft. Contract Umbrellas, Cyprus*

*Is the shade under your canvas umbrella unbearably hot? Looking for really cool shade under an umbrella? Tired of forever having to clean the mildew off your canvas umbrella? Tired of having to take down your market umbrella every time the wind picks up for fear of injuring your customers? Well Safari has the answer to all your problems. Take a closer look at our natural thatch reed umbrellas. Perfect for all outdoor and indoor applications. Hundreds of thousands sold world wide. Outstanding value. Exceptional customer satisfaction.*

#### **Features**

- Cool shade, typically 10° cooler than canvas shade, warm air escapes through the reed.
- Withstands exceptionally high winds, never has to be taken down, even in the severest winters.

#### **Installation**

- Simple and easy to install - less than 2 hours - no special tools or skills required.
- Direct burial method is recommended where possible.

- 99% waterproof.
- Totally natural thatch reed, eco-friendly, replenishable resource.



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*9ft. Thatch Reed Umbrellas, Marriot  
Frenchmans Reef,  
St. Thomas*

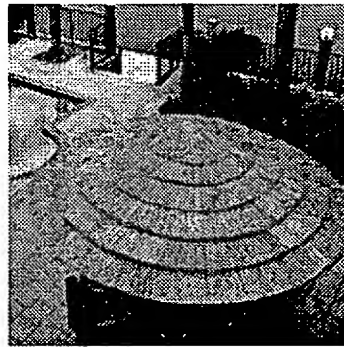
- Very durable, lasts 5 - 12 years outdoors, depending on climate.
- No maintenance, no shedding, no mildew.
- Available in a range of sizes.
- Strong and durable galvanized steel frames designed to withstand harsh coastal conditions.
- Supplied with galvanized pole, sleeved with Duracane bamboo, or with P/T solid wood post.



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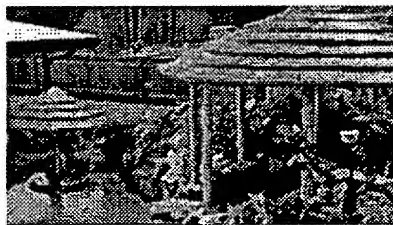
*12 1/2 ft. Thatch Reed Umbrellas on  
Peeled Cedar posts,  
Fort Worth Zoo, TX*

- Dig an 18-24" deep hole using a post-hole digger, bury 18" of the steel pole and fill the hole with 2 bags of quick-set concrete.
- Bolt frame quadrants together.
- Clip on thatch panels.



---

*11 ft. Thatch Reed Umbrella, Intracoastal  
residence, FL*



---

*16 ft. Thatch Reed Gazebo on 6 poles plus 7 1/2 ft. umbrella*

REF	Umbrella Dia.	Shade Area	Pole	Frame Sections	Regular Panels	HD Panels	Top Cone	Shipping Weight
TU-C	7.2 ft	41 sqft	incl	1	9L	0	1L	205 lbs
TU-7	7.5 ft	44 sqft	incl	4	10	2	1	215 lbs
TU-9	9 ft	64 sqft	incl	4	18	2	1	320 lbs
TU-11	11 ft	95 sqft	incl	4	28	2	1	440 lbs
TU-12	12.5 ft	123 sqft	incl	4	40	2	1	626 lbs
TU-16	16 ft	202 sqft	incl (6)	6	70	2	1	1282 lbs

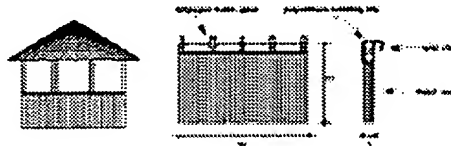
*Note: Special Contract Umbrellas (TU-C) are one piece frames. Minimum order of 10 units.*

## Matching Thatch & Bamboo Concession Stands & Thatch Reed Panels

- Matching thatch and bamboo concession stands available in 2 standard sizes, or custom made to your specifications

- These concession stands do not need to be taken down even in exceptionally strong winds, and are ideal for outdoor applications such as beaches, poolside bars, patios and waterparks.

- Matching individual thatch panels available for creating a thatch look over existing buildings and shade structures.



[go to top](#) - Page 6



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